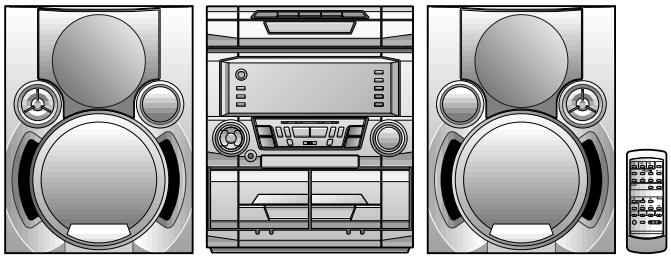
SHARP SERVICE MANUAL

No. S5036CDA2010H



CD-BA2010H

COMPACT disc DIGITAL AUDIO

R·D·S EON

SAVING ENERGY STAND-BY POWER CONSUMPTION 0.6W

CD-BA2010H Mini Component System consisting of CD-BA2010H (main unit) and CP-BA2010H (speaker system).

- In the interests of user-safety the set should be restored to its original condition and only parts identical to those specified be used.

- **Note for users in U.K.**
  Recording and playback of any material may require consent which SHARP is unable to give. Please refer particularly to the provisions of Copyright Act 1956, the Dramatic and Musical Prefomers Protection Act 1956, the Preformers Protection Acts 1963 and 1972 and to any subsequent statutory enactments and orders.

CONTENTS

SHARP CORPORATION

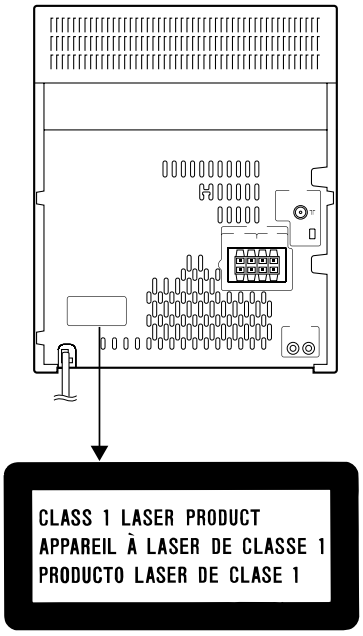
SAFETY PRECAUTION FOR SERVICE MANUAL

Precaution to be taken when replacing and servicing the Laser Pickup.

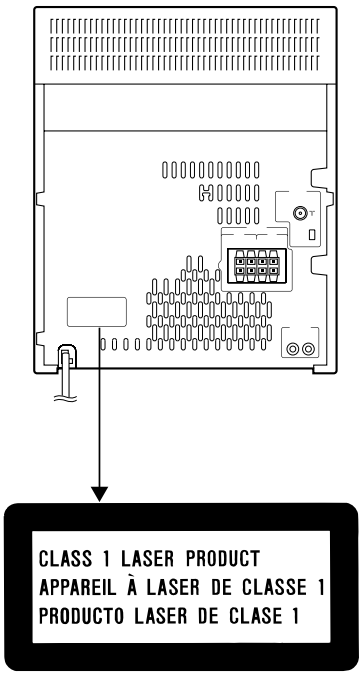
The AEL (Accessible Emission Level) of Laser Power Output for this model is specified to be lower than Class I Requirements. However, the following precautions must be observed during servicing to protect your eyes against exposure to the Laser beam.

(1) When the cabinet has been removed, the power is turned on without a compact disc, and the Pickup is on a position outer than the lead-in position, the Laser will light for several seconds to detect a disc. Do not look into the Pickup Lens.
(2) The Laser Power Output of the Pickup inside the unit and replacement service parts have already been adjusted prior to shipping.
(3) No adjustment to the Laser Power should be attempted when replacing or servicing the Pickup.
(4) Under no circumstances look directly into the Pickup Lens at any time.
(5) CAUTION - Use of controls or adjustments, or performance of procedures other than those specified herein may result in hazardous radiation exposure.

(For U.K.)

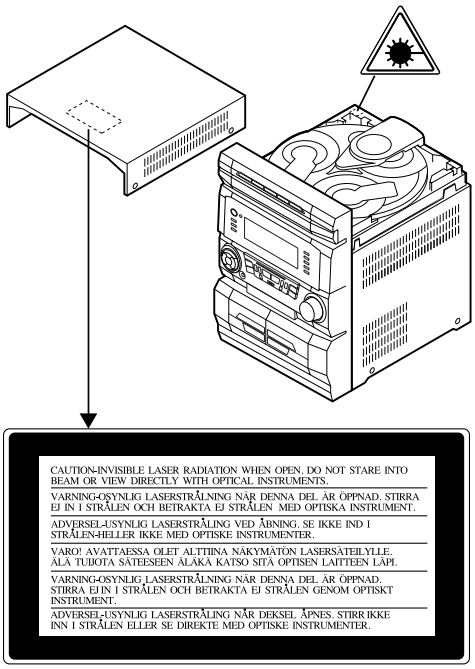


(Except for U.K.)



LASER KLASSE 1
LUOKAN 1 LASERLAITE
KLASS 1 LASERAPPARAT
LASER TŘÍDY 1
LASER TRIEDY 1

Laser Diode Properties
Material: GaAIAs
Wavelength: 780 nm
Emission Duration: continuous
Laser Output: max. 0.6 mW



VAROITUS! LAITTEEN KÄYTTÄMINEN MUULLA KUIN TÄSSÄ KÄYTTÖOHJEESSA MAINITULLA TAVALLA SAATTAA ALTISTAA KÄYTTÄJÄN TURVALLISUUSLUOKAN 1 YLITTÄVÄLLE NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE.

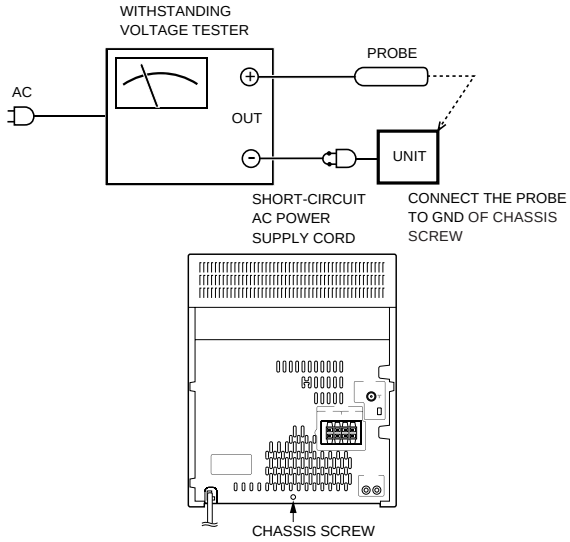
VARNING - OMAPPARATENANVÄNDS PÅ ANNAT SÄTT ÄN I DENNA BRUKSANVISNING SPECIFICERAS. KAN ANVÄNDAREN UTSÄTTAS FÖR OSYNLIG LASERSTRÅLNING, SOM ÖVERSKRIDER GRÄNSEN FÖR LASERKLASS 1.

IMPORTANT SERVICE NOTES (FOR U.K. ONLY)

Before returning the unit to the customer after completion of a repair or adjustment it is necessary for the following withstand voltage test to be applied to ensure the unit is safe for the customer to use.

Setting of Withstanding Voltage Tester and set.

Set name	set value
Withstanding Voltage Tester	
Test voltage	4,240 VPEAK 3,000 VRMS
Set time	6 secs
Set current (Cutoff current)	4 mA
Unit	
Judgment	
OK: The “GOOD” lamp lights. NG: The “NG” lamp lights and the buzzer sounds.	



FOR A COMPLETE DESCRIPTION OF THE OPERATION OF THIS UNIT, PLEASE REFER TO THE OPERATION MANUAL.

SPECIFICATIONS

CD-BA2010H

● General

Power source: AC 230 V, 50 Hz
Power consumption: 154 W
Dimensions: Width; 270 mm (10-5/8")
Height; 330 mm (13")
Depth; 332 mm (13-1/16")
Weight: 8.2 kg (18.0 lbs.)

● Amplifier section

Output power:
(Except for U.K.) PMPO; 668 W
MPO; 334 W (167 W + 167 W)
(DIN 45 324)
[Main speaker (woofer, tweeter and super tweeter);
134 W (67 W + 67 W)
Subwoofer;
200 W (100 W + 100 W)]
RMS; 200 W (100 W + 100 W)
(DIN 45 324)
[Main speaker (woofer, tweeter and super tweeter);
80 W (40 W + 40 W)
Subwoofer;
120 W (60 W + 60 W)]
RMS; 184 W (92 W + 92 W)
(DIN 45 500)
[Main speaker (woofer, tweeter and super tweeter);
74 W (37 W + 37 W)
Subwoofer;
110 W (55 W + 55 W)]

Output power:
(For U.K.) RMS; 200 W (100 W + 100 W)
(10 % T.H.D.)
[Main speaker (woofer, tweeter and super tweeter);
80 W (40 W + 40 W)
Subwoofer;
120 W (60 W + 60 W)]
RMS; 184 W (92 W + 92 W)
(0.9 % T.H.D.)
[Main speaker (woofer, tweeter and super tweeter);
74 W (37 W + 37 W)
Subwoofer;
110 W (55 W + 55 W)]

Output terminals: Speakers; 6 ohms
Headphones; 16-50 ohms
(recommended; 32 ohms)
Input terminals: Video/Auxiliary (audio signal);
500 mV/47 kohms

● Compact disc player section

Type: 3-disc multi-play compact disc player
Signal readout: Non-contact, 3-beam semiconductor laser pickup
D/A converter: 1-bit D/A converter
Frequency response: 20 - 20,000 Hz
Dynamic range: 90 dB (1 kHz)

● Tuner section

Frequency range: FM; 87.5-108 MHz
AM; 522-1,620 kHz

● Cassette deck section

Frequency response: 50-14,000 Hz (Normal tape)
Signal/noise ratio: 55 dB (TAPE 1, playback)
50 dB (TAPE 2, recording/playback)
Wow and flutter:
(Except for U.K.) 0.35 % (DIN 45 511)
Wow and flutter:
(For U.K.) 0.3 % (WRMS)

CP-BA2010H

Type: 4-way type [16 cm (6-5/16") subwoofer,
10 cm (4") woofer,
5 cm (2") tweeter and super tweeter]
Maximum input power: 200 W
Rated input power: 100 W
Impedance: 6 ohms
Dimensions: Width; 250 mm (9-7/8")
Height; 330 mm (13")
Depth; 240 mm (9-7/16")
Weight: 4.7 kg (10.3 lbs.)/each

Specifications for this model are subject to change without prior notice.

NAMES OF PARTS

CD-BA2010H

■ Front panel

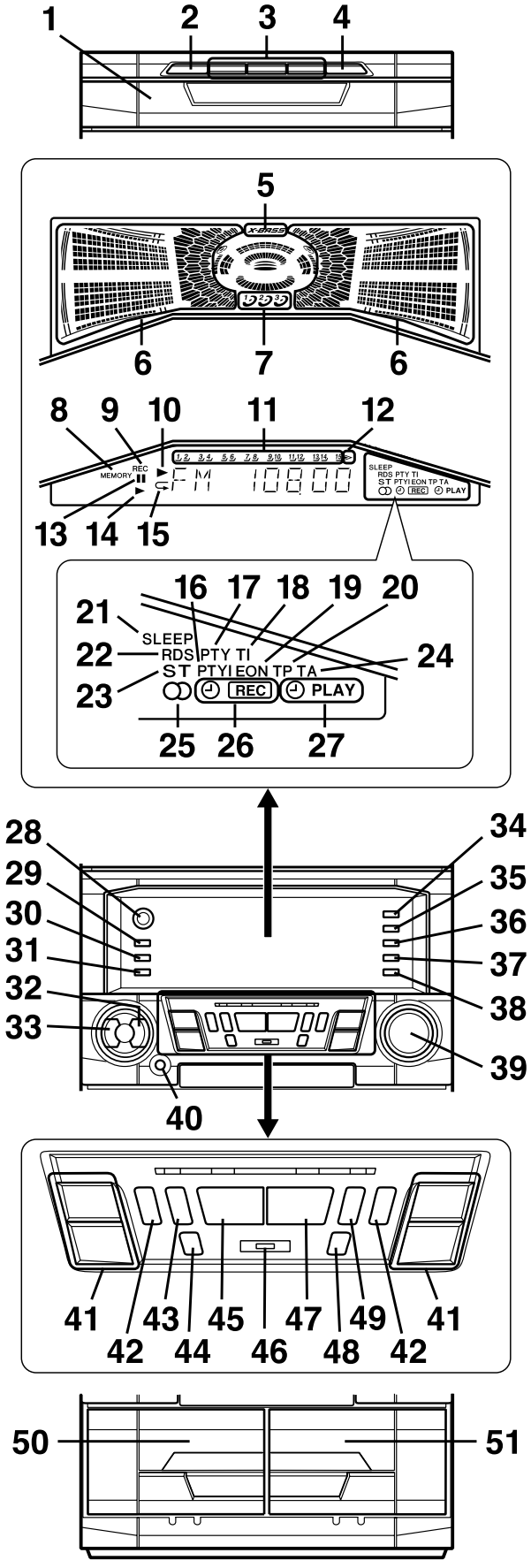
1. (CD) Disc Tray
2. (CD) Disc Skip Button
3. (CD) Disc Number Select Buttons
4. (CD) Open/Close Button

5. Extra Bass Indicator
6. Spectrum Analyzer/Volume Level Indicator
7. (CD) Disc Number Indicators
8. (CD/TUNER) Memory Indicator
9. (TAPE 2) Record Indicator
10. (CD) Play Indicator
11. (CD) Music Schedule Indicators
12. (CD) More Tracks Indicator
13. (CD) Pause Indicator
14. (TAPE) Play Indicator
15. (CD) Repeat Indicator
16. Dynamic PTY Indicator
17. Programme Type Indicator
18. Traffic Information Indicator
19. EON Indicator
20. Traffic Programme Indicator
21. Sleep Indicator
22. RDS Indicator
23. FM Stereo Mode Indicator
24. Traffic Announcement Indicator
25. FM Stereo Indicator
26. Timer Record Indicator
27. Timer Play Indicator

28. On/Stand-by Button
29. Clock Button
30. Timer/Sleep Button
31. Dimmer Button
32. Equalizer Mode Selector Button
33. Extra Bass/Demo Mode Button
34. (TUNER) Programme Type/Traffic Information Search Button
35. (TUNER) EON Button
36. (TUNER) ASPM Button
37. (TUNER) Display Mode Selector Button
38. (TUNER) Station Selector Button
39. Volume Control
40. Headphone Socket

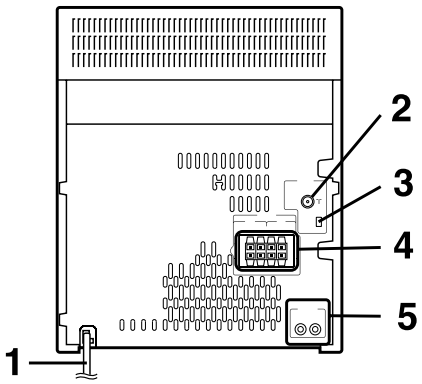
41. Function Selector Buttons
42. Tuning and Time Up/Down Buttons
43. (CD) Track Down/Review Button
    (TUNER) Preset Down Button
    (TAPE 2) Rewind Button
44. Memory/Set Button
45. (CD/TAPE) Stop Button
46. Timer Set Indicator
47. (CD) Play/Repeat Button
    (TAPE) Play Button
48. (TAPE 2) Record Pause Button
49. (CD) Track Up/Cue Button
    (TUNER) Preset Up Button
    (TAPE 2) Fast Forward Button

50. (TAPE 1) Cassette Compartment
51. (TAPE 2) Cassette Compartment



■ Rear panel

1. AC Power Lead
2. FM 75 Ohms Aerial Socket
3. AM Loop Aerial Socket
4. Speaker Terminals
5. Video/Auxiliary (Audio Signal) Input Sockets



■ Remote control

1. Remote Control Transmitter LED

● CD control section

2. Disc Number Select Buttons
3. Memory Button
4. Pause Button
5. Clear Button
6. Track Down/Review Button
7. Track Up/Cue Button
8. Disc Skip Button
9. Play/Repeat Button
10. Stop Button
11. Random Button

● Tuner control section

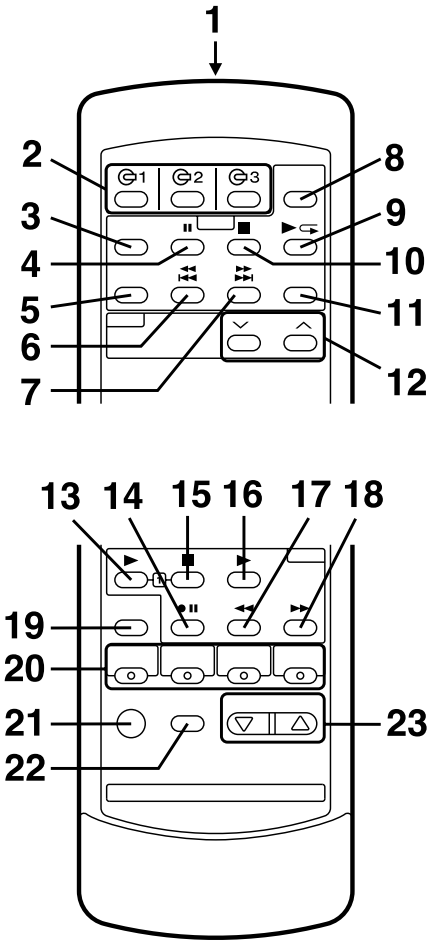
12. Preset Up/Down Buttons

● Tape control section

13. (TAPE 1) Play Button
14. (TAPE 2) Record Pause Button
15. (TAPE 1/2) Stop Button
16. (TAPE 2) Play Button
17. (TAPE 2) Rewind Button
18. (TAPE 2) Fast Forward Button

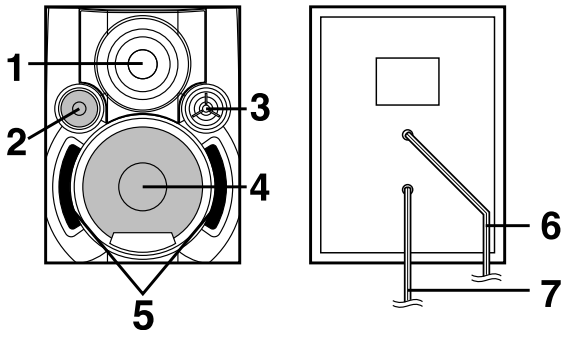
● Common section

19. Equalizer Mode Selector Button
20. Function Selector Buttons
21. On/Stand-by Button
22. Extra Bass Button
23. Volume Up/Down Buttons



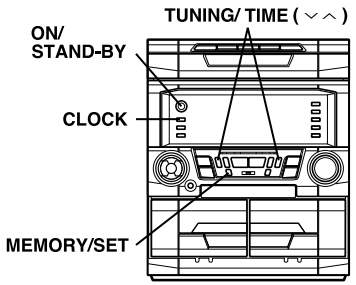
CP-BA2010H

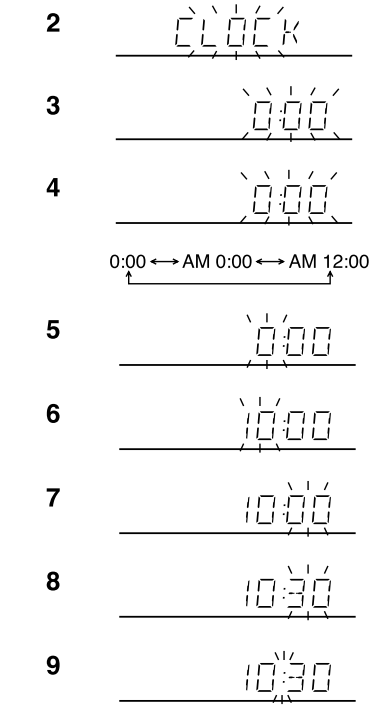
1. Woofer
2. Tweeter
3. Super Tweeter
4. Subwoofer
5. Bass Reflex Duct
6. Main Speaker (Woofer, Tweeter and Super Tweeter) Wire
7. Subwoofer Wire



SETTING THE CLOCK

(Main unit operation)





In this example, the clock is set for the 24-hour (0:00) system.

1 Press the ON/STAND-BY button to enter the stand-by mode.

2 Press the CLOCK button.

3 Within 5 seconds, press the MEMORY/SET button.

4 Press theTUNING/TIME (∨ or ∧) button to select the time display mode.
"0:00" →The 24-hour display will appear.
(0:00 - 23:59)
"AM 0:00" →The 12-hour display will appear.
(AM 0:00 - PM 11:59)
"AM 12:00" →The 12-hour display will appear.
(AM 12:00 - PM 11:59)
- Note that this can only be set when the unit is first installed or it has been reset.

5 Press the MEMORY/SET button.

6 Press the TUNING/TIME (∨ or ∧) button to adjust the hour.
- Press the TUNING/TIME (∨ or ∧) button once to advance the time by 1 hour. Hold it down to advance continuously.
- When the 12-hour display is selected, "AM" will change automatically to "PM".

7 Press the MEMORY/SET button.

8 Press the TUNING/TIME (∨ or ∧) button to adjust the minutes.
- Press the TUNING/TIME (∨ or ∧) button once to advance the time by 1 minute. Hold it down to change the time in 5 minute intervals.
- The hour setting will not advance even if minutes advance from "59" to "00".

9 Press the MEMORY/SET button.
- The clock starts operating from "0" second. (Seconds are not displayed.) And then the clock display will disappear after a few seconds.

To see the time display:

Press the CLOCK button.
- The time display will appear for about 5 seconds.

Note:
- The clock display will flash on and off at the push of the CLOCK button when the AC power supply is restored after a power failure occurs or after the AC power lead is disconnected. If this happens, follow the procedure below to change the clock time.

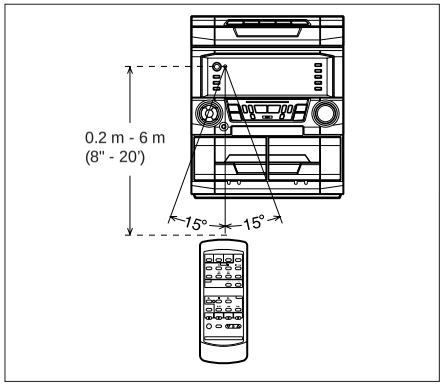
To change the clock time:

① Press the CLOCK button.
② Within 5 seconds, press the MEMORY/SET button.
③ Perform steps 6 - 9 above.

To change the time display mode:

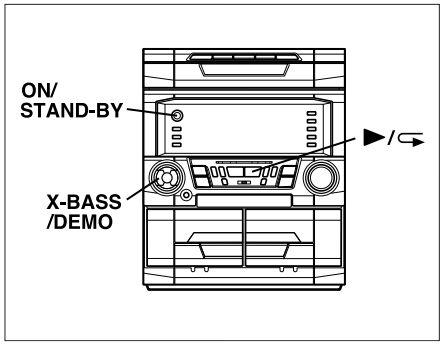
① Perform steps 1 - 2 in the section "RESETTING THE MICROCOMPUTER".
② Perform steps 1 - 9 above.

REMOTE CONTROL



Notes concerning use:
- Replace the batteries if the operating distance is reduced or if the operation becomes erratic.
- Periodically clean the transmitter LED on the remote control and the sensor on the main unit with a soft cloth.
- Exposing the sensor on the main unit to strong light may interfere with operation. Change the lighting or the direction of the unit.
- Keep the remote control away from moisture, excessive heat, shock, and vibrations.

RESETTING THE MICROCOMPUTER



Reset the microcomputer under the following conditions:
- To erase all of the stored memory contents (clock and timer settings, and tuner and CD presets).
- If the display is not correct.
- If the operation is not correct.

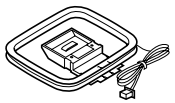
1 Press the ON/STAND-BY button to enter the stand-by mode.

2 Whilst pressing down the ▶/⮌ button and the X-BASS/DEMO button, hold down the ON/STAND-BY button for at least 1 second.
- "CLEAR AL" will appear.

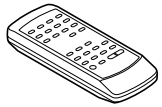
Caution:
- The operation explained above will erase all data stored in memory including clock and timer settings, and tuner and CD presets.

1 Check the supplied accessories

FM aerial × 1



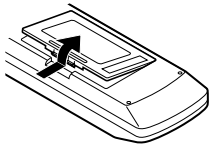
AM loop aerial × 1



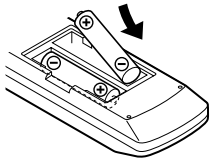
Remote control × 1

2 Putting batteries into the remote control

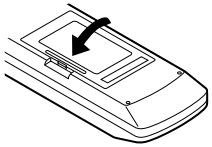
1 Remove the battery cover.



2 Insert the batteries.

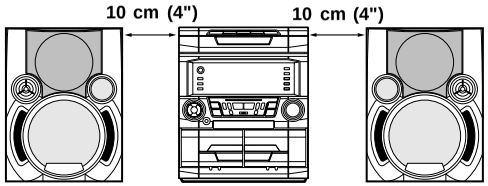


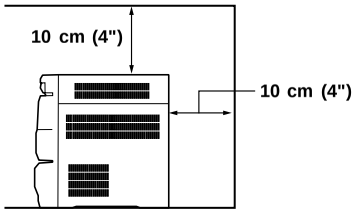
3 Replace the battery cover.



● 2 "AA" size batteries
(UM/SUM-3, R6, HP-7 or similar)

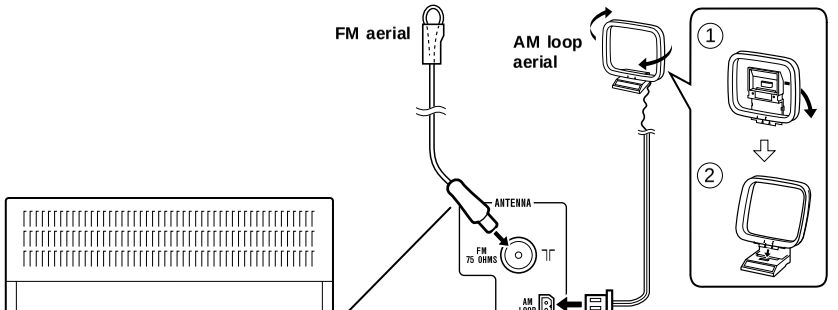
3 Placing the system



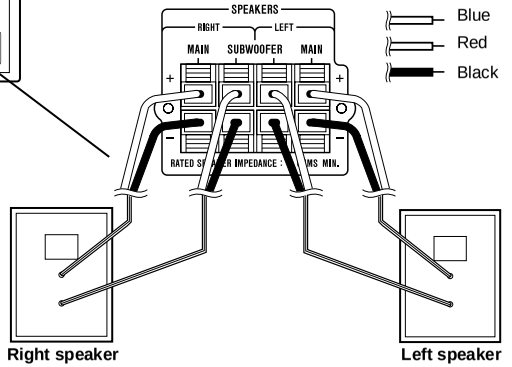


4 Connections

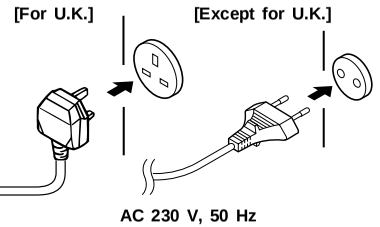
1 Connect the AM and FM aerials.



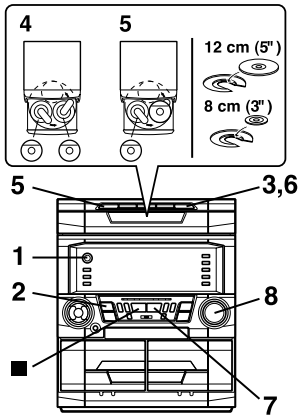
2 Connect the speaker system.



3 Connect the AC power lead.

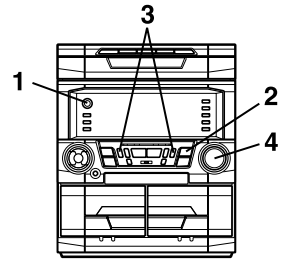


5 Listening to a CD



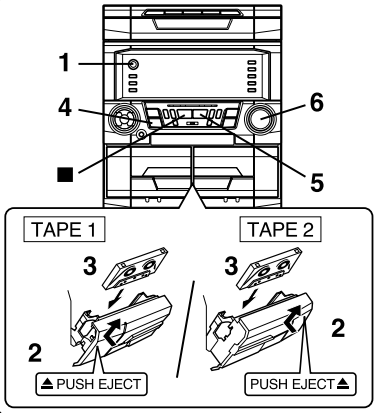
1 Press the ON/STAND-BY button to turn the power on.
2 Press the CD button.
3 Press the ⏏ OPEN/CLOSE button to open the disc tray.
4 Place the CD(s) on the disc tray, label side up.
5 When loading a third disc, press the DISC SKIP button to turn the disc tray, then place the CD in the open position.
6 Press the ⏏OPEN/CLOSE button to close the disc tray.
7 Press the ▶/⇆ button.
8 Adjust the sound volume using the VOLUME control.

6 Listening to the radio



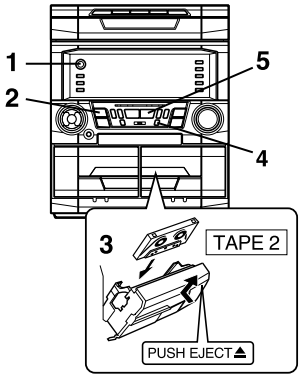
1 Press the ON/STAND-BY button to turn the power on.
2 Press the TUNER (BAND) button to select FM ST, FM or AM.
3 Press the TUNING/TIME (﹀ or ﹀) button to tune into the desired station.
4 Adjust the sound volume using the VOLUME control.

7 Listening to a tape



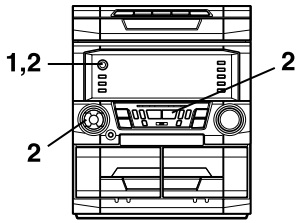
1 Press the ON/STAND-BY button to turn the power on.
2 Open the cassette door by pushing the area marked "⏏ PUSH EJECT".
3 Load the cassette into the TAPE 1 or TAPE 2 cassette compartment.
● And then, close the cassette door completely until it is locked.
4 Press the TAPE (1 ⇄ 2) button to select the TAPE 1 or TAPE 2.
5 Press the ▶/⇆ button to start playback.
6 Adjust the sound volume using the VOLUME control.

8 Recording from CDs



1 Press the ON/STAND-BY button to turn the power on.
2 Press the CD button and load the desired disc.
3 Load a cassette into the TAPE 2 cassette compartment.
4 Press the REC/PAUSE button.
5 Press the ▶/⇆ button.

● Resetting the microcomputer



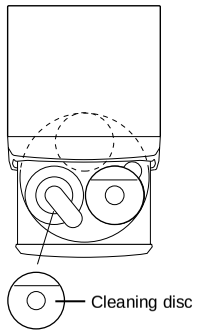
If this product is subjected to strong external interference (mechanical shock, excessive static electricity, abnormal supply voltage due to lightning, etc.) or if it is operated incorrectly, it may malfunction or the display may not function correctly. If such a problem occurs, do the following:

1 Press the ON/STAND-BY button to enter the stand-by mode.
2 Whilst pressing down the ▶/⇆ button and the X-BASS/DEMO button, hold down the ON/STAND-BY button for at least 1 second.
● "CLEAR AL" will appear.

Caution:
● The operation explained above will erase all data stored in memory including clock and timer settings, and tuner and CD presets.

● CD pickup cleaning

Clean the dust or stain on the CD pickup lens using a commercial cleaning disc (brush type).



DISASSEMBLY

Caution on Disassembly
Follow the below-mentioned notes when disassembling the unit and reassembling it, to keep it safe and ensure excellent performance:
1. Take cassette tape and compact disc out of the unit.
2. Be sure to remove the power supply plug from the wall outlet before starting to disassemble the unit.
3. Take off nylon bands or wire holders where they need to be removed when disassembling the unit. After servicing the unit, be sure to rearrange the leads where they were before disassembling.
4. Take sufficient care on static electricity of integrated circuits and other circuits when servicing.

CD-BA2010H

STEP	REMOVAL	PROCEDURE	FIGURE
1	Top Cabinet	1. Screw ..... (A1) x4	9-1
2	Side Panel (Left/Right)	1. Screw ..... (B1) x8	9-1
3	CD Player Unit/ CD Tray Cover	1. Turn on the power supply, open the disc tray, take out the CD cover, and close. (Note 1) 2. Screw ..... (C1) x1 3. Hook ..... (C2) x3 4. Hook ..... (C3) x2 5. Socket ..... (C4) x2	9-2
4	Rear Panel	1. Screw ..... (D1) x10	9-2
5	Main/RDS PWB	1. Screw ..... (E1) x3 2. Socket ..... (E2) x3 3. Flat Cable ..... (E3) x1 4. Tip Wire ..... (E4) x1	10-3
6	Power Supply PWB	1. Screw ..... (F1) x2 2. Socket ..... (F2) x4 3. Flat Wire ..... (F3) x1	10-4
7	Front Panel	1. Screw ..... (G1) x2 2. Hook ..... (G2) x2	10-4
8	Volume Mechanism/ Volume Motor	1. Knob ..... (H1) x1 2. Screw ..... (H2) x4 3. Socket ..... (H3) x1 4. Belt ..... (H4) x1 5. Screw ..... (H5) x2	10-5
9	Switch PWB	1. Screw ..... (J1) x2 2. Bracket ..... (J2) x1	10-5
10	Display/ Headphones PWB	1. Screw ..... (K1) x6 2. Bracket ..... (K2) x1 3. Hook ..... (K3) x2 4. Flat Cable ..... (K4) x1	10-5
11	Tape Mechanism	1. Open the cassette holder. 2. Screw..... (L1) x5	10-5
12	Turntable	1. Hook ..... (M1) x2 2. Cover ..... (M2) x1	10-6
13	Disc Tray	1. Turn fully the lock lever in the arrow direction. 2. While holding the lock lever, rotate the cam gear until the cam gear rib engages with the clamp lever. 3. Push the slide holder backward to engage the claw with the groove and remove it in the direction of the arrow. ..... (N1) x6	10-1 10-2 11-1
14	CD Servo PWB (Note 2)	1. Screw ..... (P1) x1 2. Hook ..... (P2) x2 3. Socket ..... (P3) x4	11-2
15	CD Mechanism	1. Hook ..... (Q1) x2 2. Hook ..... (Q2) x3	11-3
16	Loading Motor PWB	1. Hook ..... (R1) x5	11-3

Note 1:
How to open the changer manually. (Fig. 10-1)
1. In this state, turn fully the lock lever in the arrow direction through the hole on the loading chassis bottom.
2. While holding the lock lever, rotate the cam gear anticlockwise until the cam gear rib engages with the clamp lever. (Fig. 10-2)
3. After that, push forward the CD slide holder.

Note 2:
1. After removing the connector for the optical pickup from the connector, wrap the conductive aluminium foil around the front end of the connector to protect the optical pickup from electrostatic damage.

Note 3:
1. Be careful not to break the claw of the CD mechanism.
2. When fining back the cam gear assembly, let it lock by front movement.

CD-BA2010H

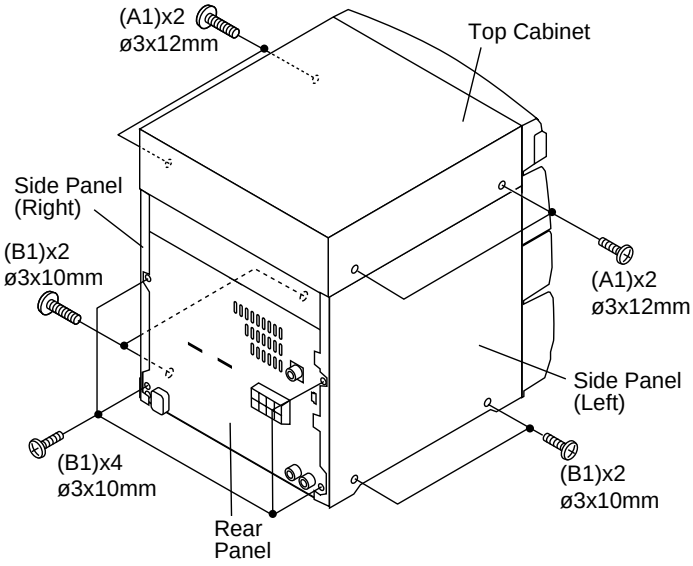


Figure 9-1

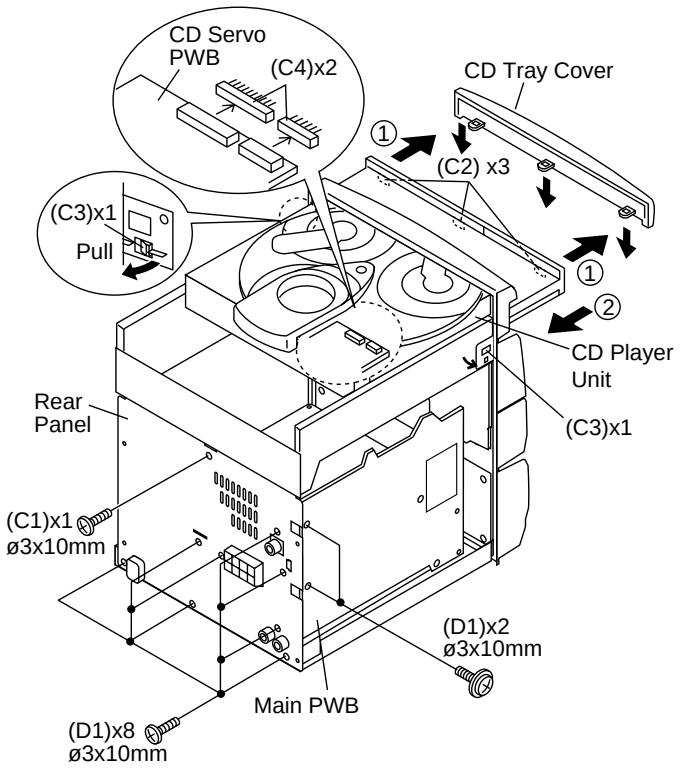


Figure 9-2

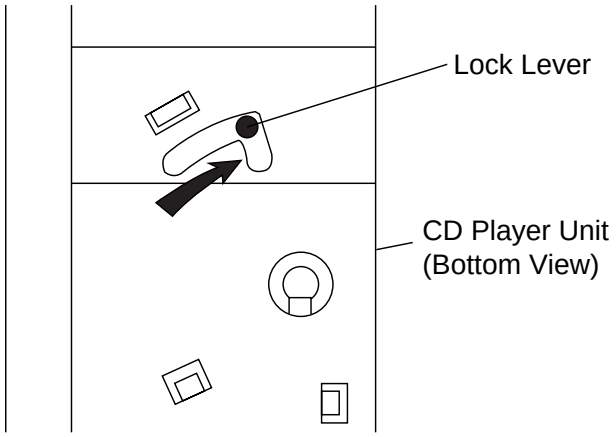


Figure 10-1

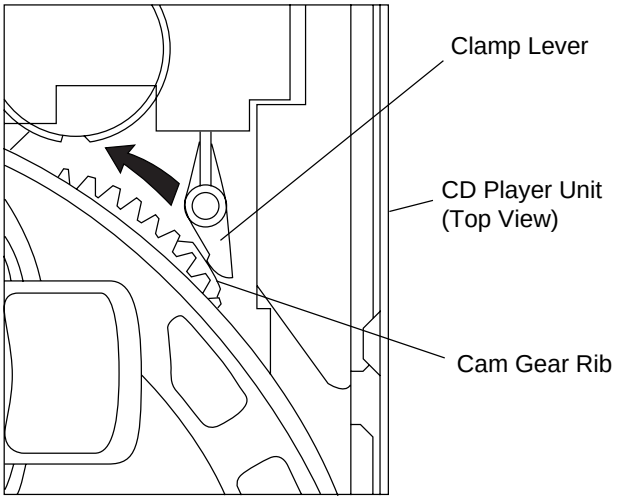


Figure 10-2

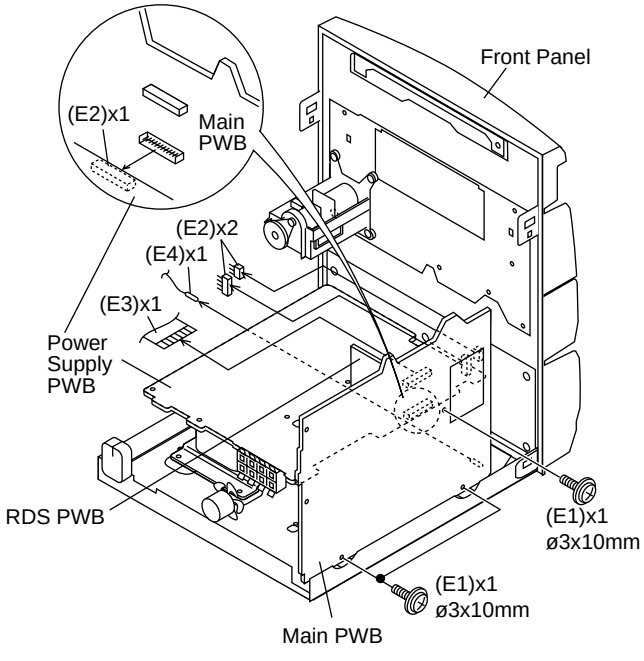


Figure 10-3

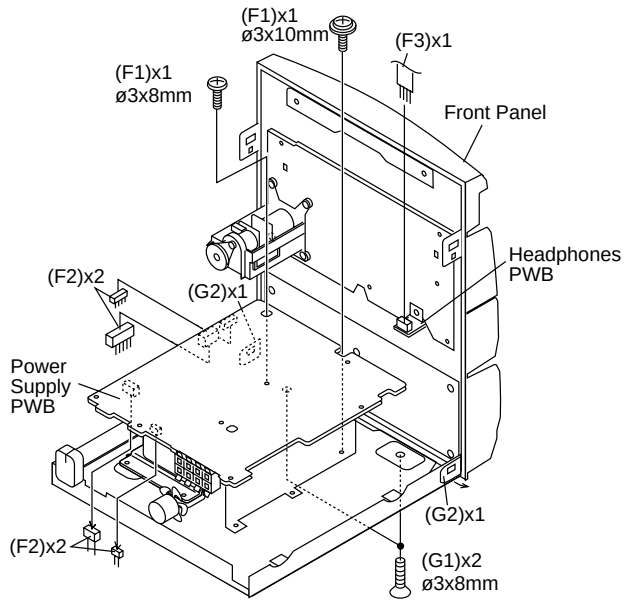


Figure 10-4

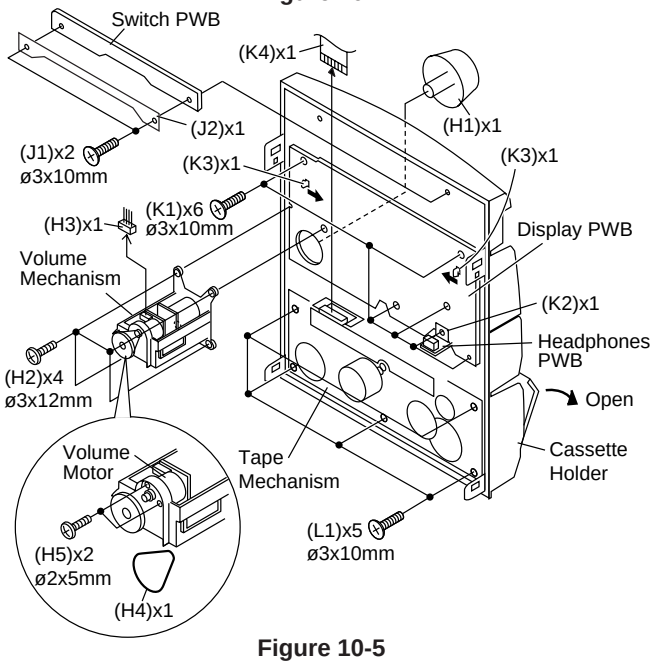


Figure 10-5

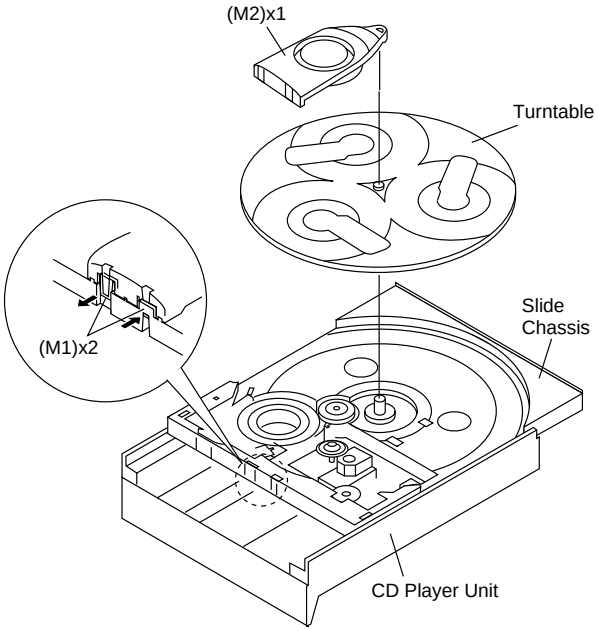


Figure 10-6

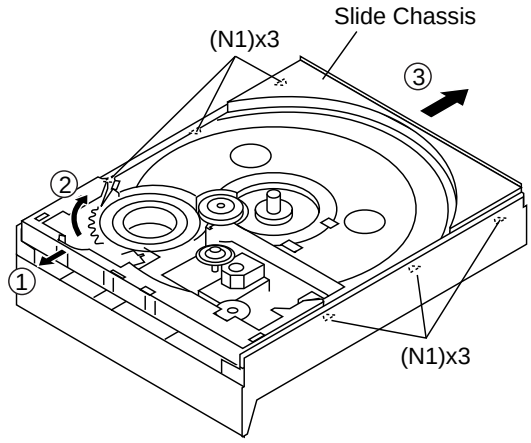


Figure 11-1

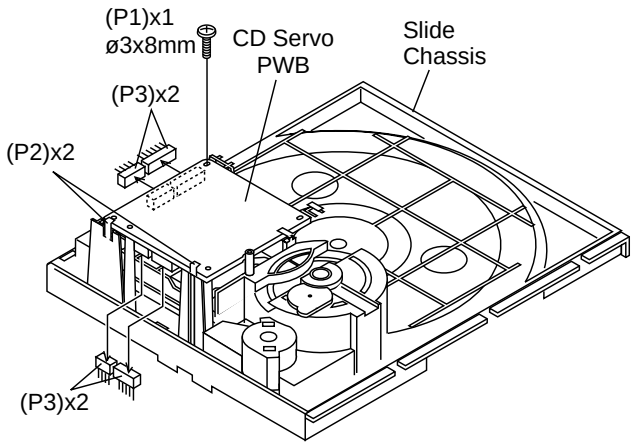


Figure 11-2

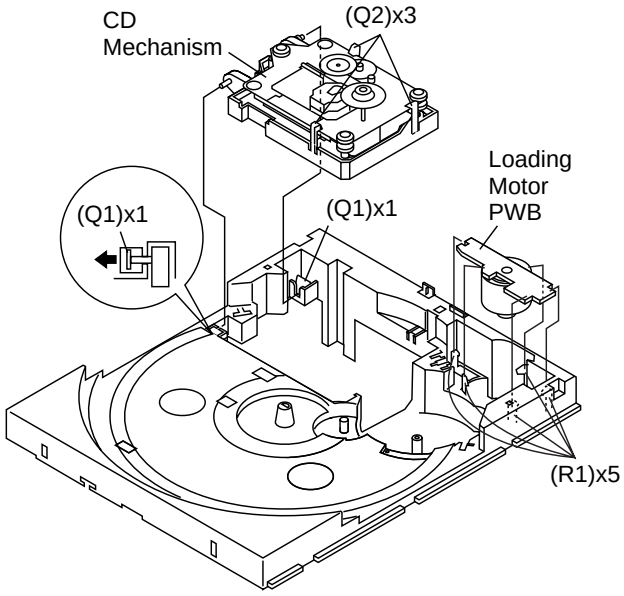


Figure 11-3

CP-BA2010H

STEP	REMOVAL	PROCEDURE	FIGURE
1	Woofer	1. Front Panel ..... (A1) x1 2. Screw ..... (A2) x4	11-4
2	Subwoofer	1. Screw ..... (B1) x4	11-5
3	Tweeter	1. Screw ..... (C1) x2	11-5
4	Super Tweeter	1. Screw ..... (D1) x2	11-5

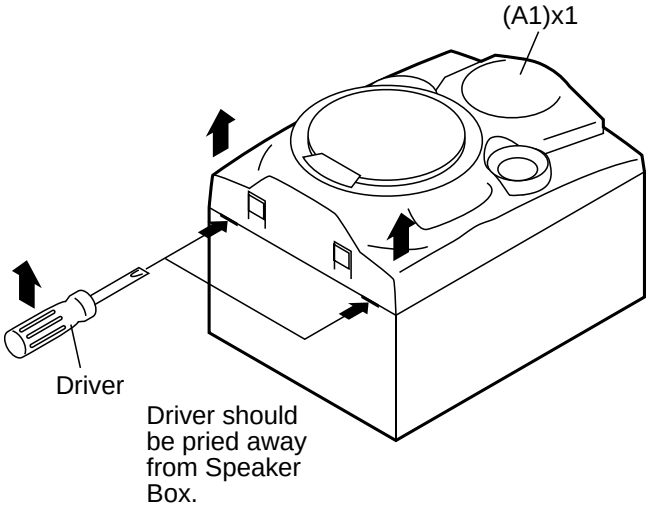


Figure 11-4

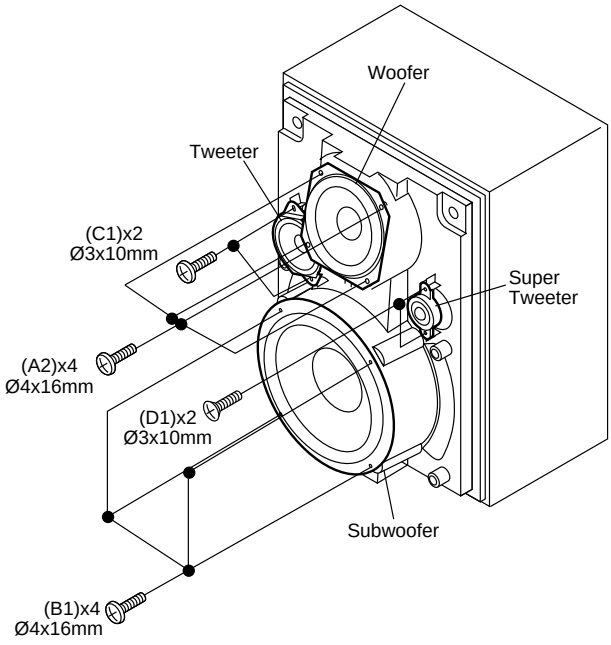


Figure 11-5

REMOVING AND REINSTALLING THE MAIN PARTS

TAPE MECHANISM SECTION

Perform steps 1 to 7 and 11 of the disassembly method to remove the tape mechanism.

How to remove the record/playback and erase heads (TAPE 2) (See Fig. 12-1)

1. When you remove the screw (A1) x 2 pcs., the recording/playback head and three-dimensional head of the erasing head can be removed.

How to remove the playback head (TAPE 1) (See Fig. 12-2)

1. When you remove the screw (B1) x 2 pcs., the playback head.

How to remove the pinch roller (TAPE 1/2) (See Fig. 12-3)

1. Carefully bend the pinch roller pawl in the direction of the arrow **<A>**, and remove the pinch roller (C1) x 1 pc., in the direction of the arrow **<B>**.

Note:
When installing the pinch roller, pay attention to the spring mounting position.

How to remove the belt (TAPE 2) (See Fig. 12-4)

1. Remove the main belt (D1) x 1 pc., from the motor side.
2. Remove the FF/REW belt (D2) x 1 pc.

How to remove the belt (TAPE 1) (See Fig. 12-4)

1. Remove the main belt (E1) x 1 pc., from the motor side.
2. Remove the FF/REW belt (E2) x 1 pc.

How to remove the motor (See Fig. 12-5)

1. Remove the screws (F1) x 2 pcs., to remove the motor.

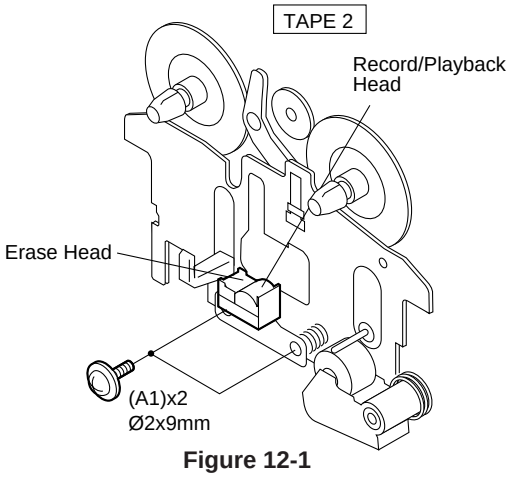


Figure 12-1

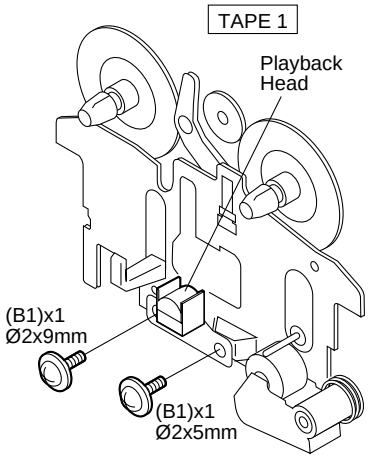


Figure 12-2

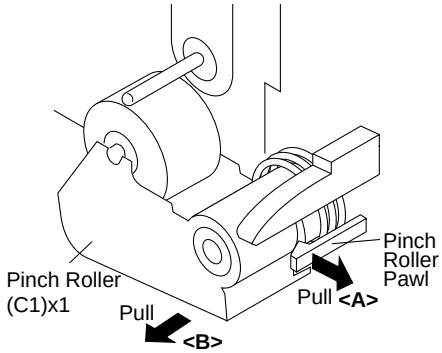


Figure 12-3

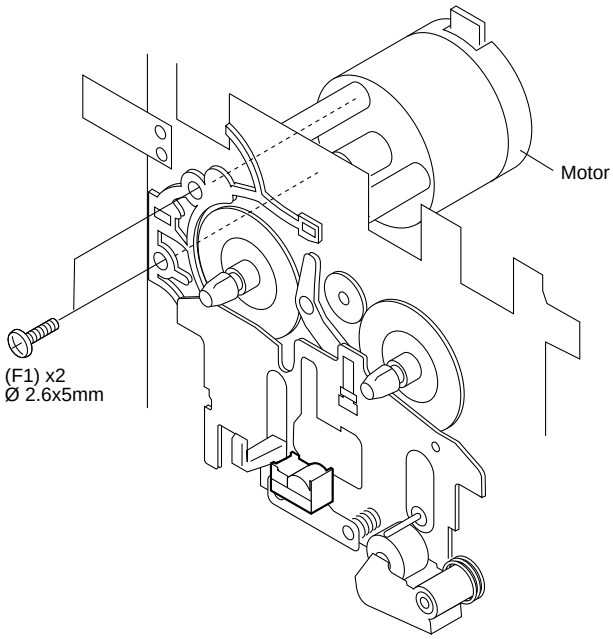


Figure 12-5

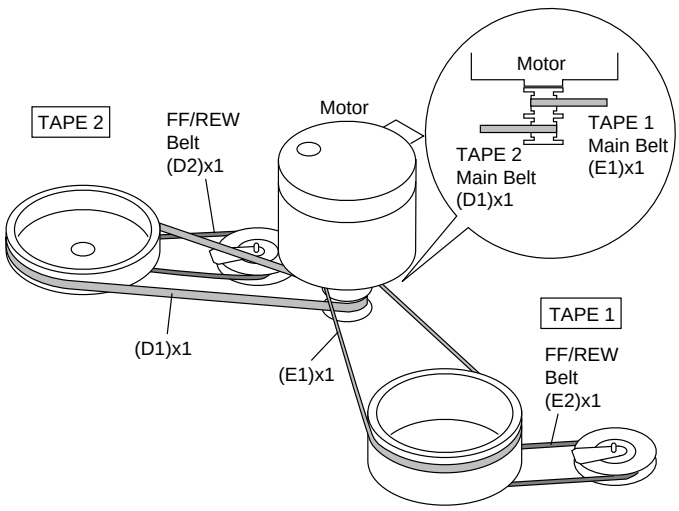


Figure 12-4

CD MECHANISM SECTION

Perform steps 1, 2, 3, 12 and 15 of the disassembly method to remove the CD mechanism.

How to remove the loading motor (See Fig. 13-1)

1. Bend the hooks (A1) x 5 pcs., to remove the loading motor.

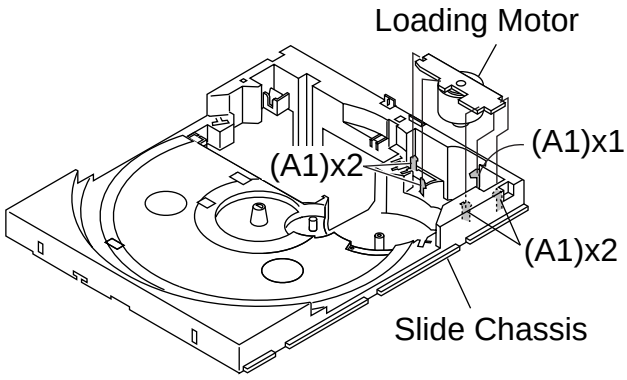


Figure 13-1

How to remove the pickup (See Fig. 13-2)

1. Remove the stop washer (B1) x 1 pc., to remove the gear (B2).
2. Remove the screws (B3) x 2 pcs., to remove the shaft (B4).
3. Remove the pickup.

Note

After removing the connector for the optical pickup from the connector, wrap the conductive aluminium foil around the front end of connector to protect the optical pickup from electrostatic damage.

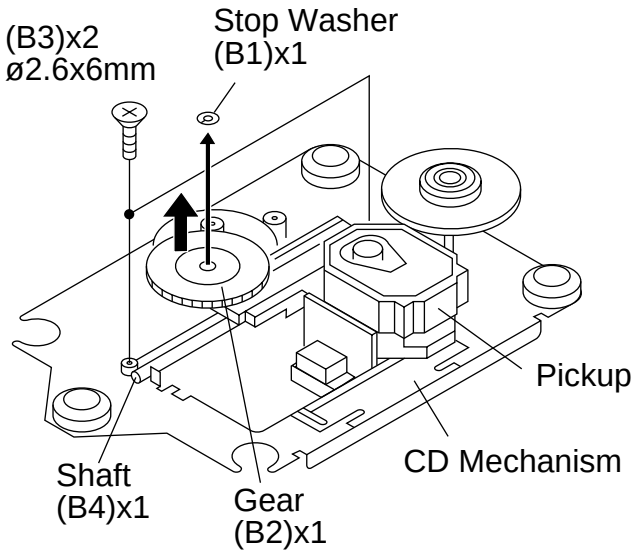


Figure 13-2

ADJUSTMENT

MECHANISM SECTION

• Driving Force Check

Torque Meter	Specified Value
Play: TW-2111	Tape 1: Over 80 g Tape 2: Over 80 g

• Torque Check

Torque Meter	Specified Value	
	Tape 1	Tape 2
Play: TW-2111	30 to 80 g.cm	30 to 80 g.cm
Fast forward: TW-2231	—	70 to 180 g.cm
Rewind: TW-2231	—	70 to 180 g.cm

• Tape Speed

	Test Tape	Adjusting Point	Specified Value	Instrument Connection
Normal speed	MTT-111	Variable Resistor in motor. (MM1)	3,000 ± 30 Hz	Speaker terminal (Load resistance: 6 ohms)

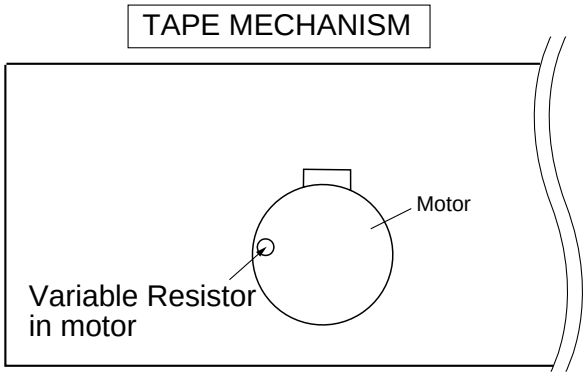


Figure 13-3

TUNER SECTION

fL: Low-range frequency
fH: High-range frequency

- **AM IF/RF**

Signal generator: 400 Hz, 30%, AM modulated

Test Stage	Frequency	Frequency Display	Setting/ Adjusting Parts	Instrument Connection
AM IF	450 kHz	1,620 kHz	T351	*1
AM Band Coverage	—	522 kHz	(fL): T306 1.1 ± 0.1 V	*2
AM Tracking	990 kHz	990 kHz	(fL): T303	*1

*1. Input: Antenna Output: TP302
*2. Input: Antenna Output: TP301

- **FM**

Notes:

1: Description of the "FM IF Adjustment" is not carried on this Manual. It is because the IF coil in the FM front end section has been best adjusted in the factory so that its further adjustment is not needed at the field. When replacing the FM front end assembly, no adjustment is needed either.
2: The parts in the FM front end section are prepared in a complete unit, so you can't obtain each part individually.

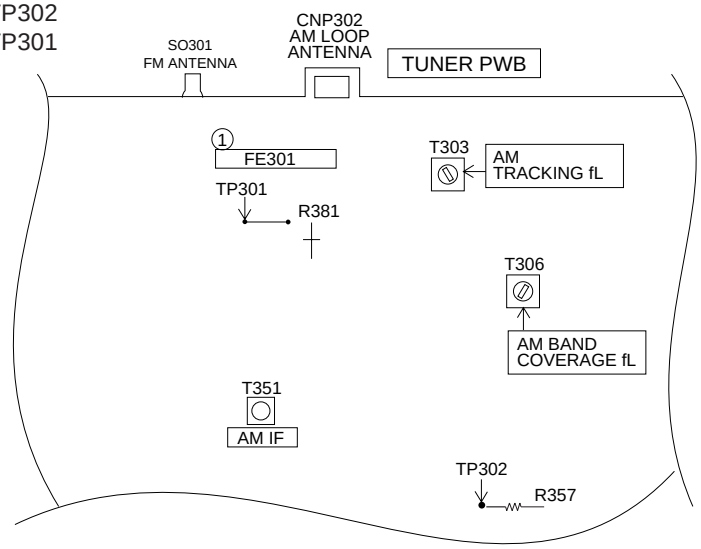


Figure 14-1 ADJUSTMENT POINTS

CD SECTION

- **Adjustment**

Since this CD system incorporates the following automatic adjustment functions, readjustment is not needed when replacing the pickup. Therefore, different PWBs and pickups can be combined freely.

Each time a disc is changed, these adjustments are performed automatically. Therefore, playback of each disc can be performed under optimum conditions.

Items adjusted automatically

(1) Offset adjustment (The offset voltage between the head amplifier output and the VREF reference voltage is compensated inside the IC.)
  * Focus offset adjustment
  * Tracking offset adjustment

(2) Tracking balance adjustment (waveform drawing Fig. 14-2 EFBL)

(3) Gain adjustment (The gain is compensated inside the IC so that the loop gain at the gain crossover frequency will be 0dB.)
  * Focus gain adjustment
  * Tracking gain adjustment

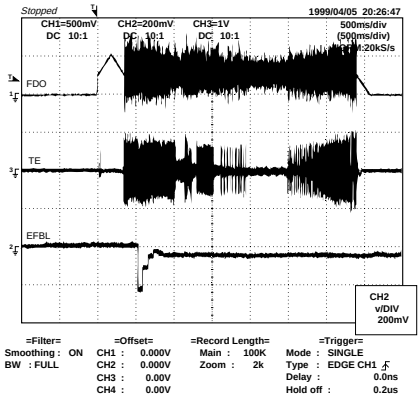
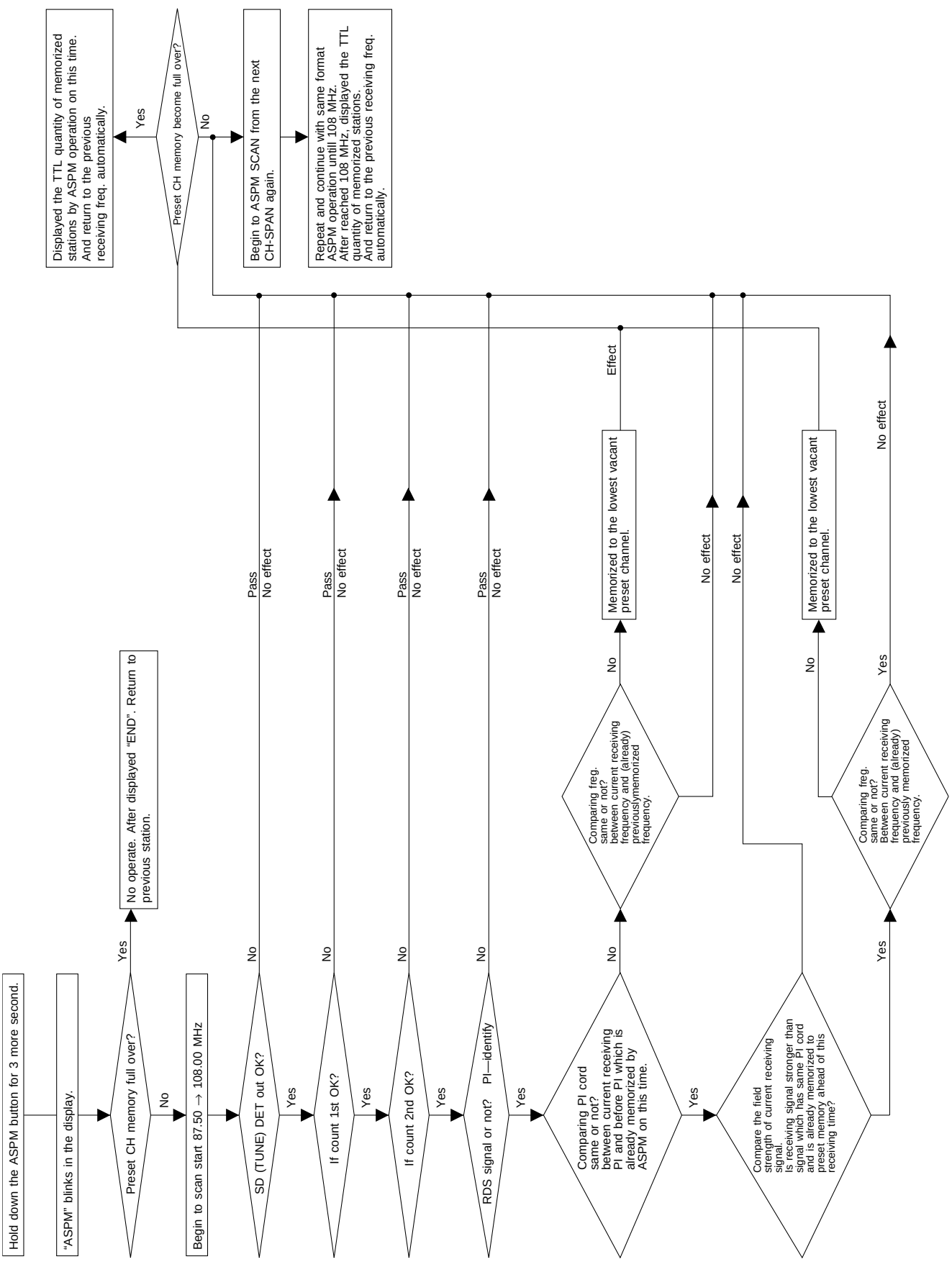


Figure 14-2

CD ERROR CODE DESCRIPTION

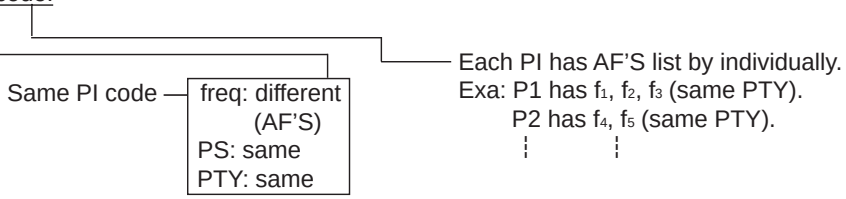
Error	State Code
	[Servo System Error]
0001	Cannot detect Pickup-in SW
0002	DSP access error
	[Error during close operation]
0101	Open/Close SW not functioning (Low → High)
0103	Open/Close SW not functioning (High → Low)
	[Error during open operation]
0201	Open/Close SW not functioning (Low → High)
0203	Open/Close SW not functioning (High → Low)
	[Error during skip operation]
0302	Pickup-in SW is not detected
0306	During Disc 1 search, Open/Close SW or Clamp SW or Disc SW do not change to low.
0307	Clamp SW not function (Low → High)
0308	Clamp SW not function (High → Low)

ASPM, summary operation

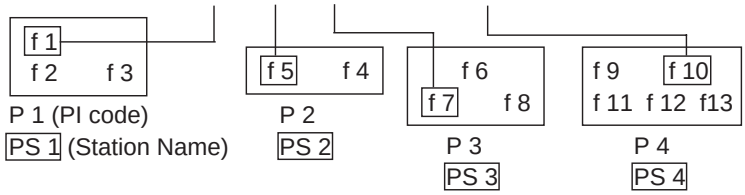


CD-BA2010H

• ASPM SCAN: 87.50 MHz → 108.00 MHz.
• Only RDS signal is memorized by ASPM because RDS signal has PI code and is suitable and convenient for ASPM operation.
ASPM
Comparing field strength, only one strongest RDS station is memorized of all stations (repeater relay stations) that have same PI code.



[For example] Pickup and memorized to preset CH.



Select signals (f1, f5, f7, f10) are memorized in the preset memory by ASPM.
• If tentative - ASPM operation is repeated intentionally, never memorized (over write) at the same frequency.
1st time ASPM → strongest stations of each PI are memorized.

ASPM is not only very usefull for PTY search, but also EON operation.
2nd time ASPM → 2nd strong stations of each PI are memorized and so on.
PTY search function is equal to FM band search function as a result.

1. Introduction of RDS for CD-BA2010H
CD-BA2010H RDS function is equal to adding EON feature to the current CD-C75H RDS.
EON feature is EON—PTY and EON—TI.
Although PTY and TI indicators are separated, PTY contains TI in the PTY items (software) like current PTY search items.

EON—PTY and EON—TI are basically stand-by → receive the desired program of ON station.

2. The difference point from current CD-C75H RDS. (CD-C75H — CD-BA2010H)
1. PTY item: added TA. (TTL 18 kind.)
2. Each "TP", "TA" ind. Light up or go out individually.
"TA" ind. Doesn't light up on current model, CD-C75H due to none EON—TI.
3. Added 3 indicators (in FL) due to adding EON feature.
EON: Lights up only during receiving EON data (14A).
TI: During EON-TI stand-by → Light up
During receiving ON station. → blink.
PTY: During EON-PTY stand-by → Light up
During receiving ON station. → blink.

4. No adjust type (None adjusting circuit.)
5. Added EON button.
6. Need to change RDS logo due to the addition of EON feature.
7. Added EON—TI, EON—PTY function.

3. Summary of CD-BA2010H RDS—EON operation
EON—PTY: Select and set the desired "PTY" → stand-by → switch to ON (other network) Station at the start of desired PTY automatically → stay and listen to PTY of ON station → switch back to TN (This net) station automatically at the end of PTY (ON) i.e. after changing to another PTY (except AFFAIRS) or cancelling to receive PTY of ON station midway.
EON—TI: Select and set the "TI" → stand-by → switch to ON station at the start of traffic announcement automatically → stay and listen to TA of ON station → switch back to TN station automatically at the end of TA (ON).
Ie after TA (ON) is over or cancelled to receive TA of ON station midway.
When switching TN → ON station.
In case of exist 2 more stations having the desired (specified) "PTY" or "TI", the receiver will select and switch to ON station comparing field strength at the same time. But when the frequency of ON station exists in the preset-memory, then receiver switches straight to that ON station (CH), without comparing field strength so can make a quick switching from TN—ON station.
Preset memory takes priority of switching TN—ON station.
Therefore ASPM is usefull not only for PTY search but also for rapid EON switching.
Anyway CD-BA2010H EON is basically stand-by and receiving method, along with the Guidelines for EON implementation.

EON summary notice for reference

1. EON-TI/PTY EON stand-by can be set, only when EON ind. Lights up.
   While EON ind. Goes out (NO EON STATION), EON stand-by can't be set.
   If the EON button is pressed, then “NO EON” is indication the display.
2. EON-TI/PTY Even if switch back ON → TN station continue to keep EON stand-by.
3. EON-TI Don’t switch TN → ON during TN broadcast TA. (same item)
4. EON-TI/PTY EON can be cancelled during receiving ON station by pressing EON button if necessary and switch back ON→TN.
5. EON-TI/PTY EON stand-by is perfectly cancelled (cleared) by pressing EON button 2 times during stand-by or power OFF or Tun Up/Down or change band or recall pre-set CH.
6. EON-TI/PTY After setting EON stand-by, stand-by items can be confirmed by pressing EON button one time.
7. EON-TI/PTY EON button function: • EON setting
   • Confirm stand-by items
   • Cancel (ON→TN)
   • EON clear cancel (2 times)
8. EON-TI/PTY After setting EON-TI and EON-PTY stand-by, if when EON data is not transmitted, EON ind goes out and EON stand-by is automatically cancelled display “NO EON”.
9. EON-TI EON-TI stand-by can't be set. When TP=0,TA=0 (TN) even if EON ind. Lights up and the EON button is pressed then “NO TI” is indication the display.
10. EON-PTY Don’t switch TN → ON during TN broadcast same specified PTY. (same item of PTY)
11. EON-TI/PTY Switch TN→ON → TN station one cycle.
    Never switch TN → ON1 → ON2 → Other net to other net station.
12. EON-TI/PTY After switch TN → ON station. When ON station is NO RDS, NO signal, TA=OFF or different PTY items. The receiver switch back ON → TN displaying “NO READY”.
    During receive ON station. When ON station become to be NO RDS, NO signal, TA=ON to OFF or different PTY item, The receiver switch back ON → TN.
13. EON-TI/PTY Switch TN → ON in case of 2 more stations exist, comparing field strength and switch to the strongest station, if these signals are same strength, switch to the first previous station.
    If same frequency as AF'Sexists in the preset memory, then switch TN → ON (preset memory station) straight.
    In case of exist 2 more preset memories of AF’S,then switch to the preset CH which taken in EON DATA first, also in this case no concern to field strength.
    Even if switch TN → ON preset memory straight, that ON station is very weak signal, then search another AF'S (ON) station comparing field strength and switch to the strongest station as a result. Of all stations of AF'S are very weak or no good condition, then, switch back ON → TN automatically display "NO READY".
14. EON-TI/PTY No linkage volume, power ON/OFF, and switch function.

Traffic Programme code (TP)	Traffic Announcement code (TA)	Applications
OFF	OFF	This programme does not carry traffic announcements nor does it refer, via EON, to a programme that does.
OFF	ON	This programmecarries EON information about another programme which gives traffic information.
ON	OFF	This programme carries traffic announcements but none are being broadcast at present and may also carry EON information about other traffic announcements.
ON	ON	A traffic announcement is being broadcast on this programme at present.

RDS (Radio Data System) OPERATION

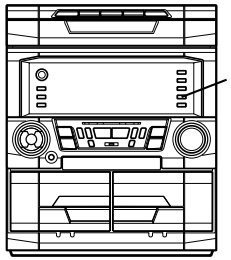
RDS is a broadcasting service which a growing number of FM stations are now providing. It allows these FM stations to send additional signals along with their regular programme signals. For example, the stations send their station names, and information about what type of programme they broadcast, such as sports or music, etc.
When tuned to an FM station which provide the RDS service, the RDS will appear, the station frequency (and then the station name if sent) is displayed.
The TP (Traffic Programme) will appear on the display when the received broadcast carries traffic announcements, and the TA (Traffic Announcement) will appear whilst a traffic announcement is being received.
EON will appear whilst the EON (Enhanced Other Networks information) data is being broadcast.
The PTYI (Dynamic PTY Indicator) will appear whilst the Dynamic PTY station is being received.

Note:
When the TP and TA appear at the same time, an announcement is being made.
When only the TA appears, an announcement is not being made.

■ Information Provided by RDS

With the CD-BA2010H, you can display three types of RDS service. To show them in the display, press the DISPLAY MODE button.
Each time you press the DISPLAY MODE button, the display will change to show the following information.

PS (Programme Service):	Station names commonly known will be displayed. “NO PS” appears if no signal is being received.
PTY (Programme Type):	Programme type will be displayed. “NO PTY” appears if no signal is being received.
RT (Radio Text):	Radio text will be displayed. “NO RT” appears if no signal is being received.
Station Frequency:	Station frequencies.



(Continued)

Descriptions of the PTY (Programme Type) codes, TP (Traffic Programme) and TA (Traffic Announcement)
With the CD-BA2010H, you can search for and receive the following PTY, TP and TA signals.

NEWS: Short accounts of facts, events and publicly expressed views, reportage and actuality.

AFFAIRS: Topical programme expanding or enlarging upon the news, generally in different presentation style or concept, including debate, or analysis.

INFO: Programmes whose purpose is to impart advice in the widest sense.

SPORT: Programme concerned with any aspect of sport.

EDUCATE: Programme intended primarily to educate, of which the formal element is fundamental.

DRAMA: All radio plays and serials.

CULTURE: Programmes concerned with any aspect of national or regional culture, including language, theatre, etc.

SCIENCE: Programmes about the natural sciences and technology.

VARIED: Used for mainly speech-based programmes usually of light-entertainment nature, not covered by other categories. Examples include: quizzes, panel games, personality interviews.

POP M: Commercial music, which would generally be considered to be of current popular appeal, often featuring in current or recent record sales charts.

ROCK M: Contemporary modern music, usually written and performed by young musicians.

EASY M: Cur rent contemporary music considered to be “easy-listening”, as opposed to Pop, Rock or Classical, or one of the specialized music styles, Jazz, Folk or Country. Music in this category is often but not always, vocal, and usually of short duration.

LIGHT M: Classical Musical for general, rather than specialist appreciation. Examples of music in this category are instrumental music, and vocal or choral works.

CLASSICS: Performances of major orchestral works, symphonies, chamber music etc., and including Grand Opera.

OTHER M: Musical styles not fitting into any of the other categories. Particularly used for specialist music of which Rhythm & Blues and Reggae are examples.

WEATHER: Weather reports and forecasts and Meteorological information.

FINANCE: Stock Market reports, commerce, trading etc.

CHILDREN: For programmes targeted at a young audience, primarily for entertainment and interest, rather than where the objective is to educate.

SOCIAL: Programmes about people and things that influence them individually or in groups. Includes: sociology, history, geography, psychology and society.

RELIGION: Any aspect of beliefs and faiths, involving a God or Gods, the nature of existence and ethics.

PHONE IN: Involving members of the public expressing their views either by phone or at a public forum.

TRAVEL: Features and programmes concerned with travel to near and far destinations, package tours and travel ideas and opportunities. Not for use for Announcements about problems, delays, or roadworks affecting immediate travel where TP/TA should be used.

LEISURE: Programmes concerned with recreational activities in which the listener might participate. Examples include, Gardening, Fishing. Antique collecting, Cooking, Food & Wine etc.

JAZZ: Polyphonic, syncopated music characterised by improvisation.

COUNTRY: Songs which originate from, or continue the musical tradition of the American Southern States. Characterised by a straightforward melody and narrative story line.

NATION M: Current Popular Music of the Nation or Region in that country’s language, as opposed to International ‘Pop’ which is usually US or UK inspired and in English.

OLDIES: Music from the so-called “golden age” of popular music.

FOLK M: Music which has its roots in the musical culture of a particular nation, usually played on acoustic instruments. The narrative or story may be based on historical events or people.

DOCUMENT: Programme concerned with factual matters, presented in an investigative style.

TEST: Broadcast when testing emergency broadcast equipment or receivers.

ALARM !: Emergency announcement made under exceptional circumstances to give warning of events causing danger of a general nature.

NONE: No programme type (receive only).

TP: Broadcasts which carry traffic announcements.

TA: Traffic announcements are being broadcast at present.

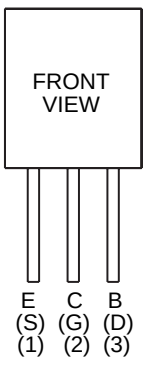
Note:
● When the unit is in the EON stand-by mode and a programme is selected, the unit will display “TI” instead of “TA”.

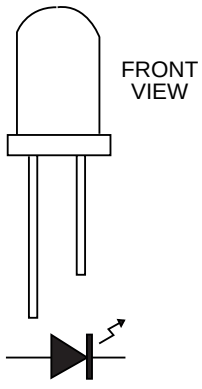
NOTES ON SCHEMATIC DIAGRAM

- Resistor:
  To differentiate the units of resistors, such symbol as K and M are used: the symbol K means 1000 ohm and the symbol M means 1000 kohm and the resistor without any symbol is ohm-type resistor. Besides, the one with “Fusible” is a fuse type.
- Capacitor:
  To indicate the unit of capacitor, a symbol P is used: this symbol P means micro-micro-farad and the unit of the capacitor without such a symbol is microfarad. As to electrolytic capacitor, the expression “capacitance/withstand voltage” is used.
  (CH), (TH), (RH), (UJ): Temperature compensation
  (ML): Mylar type
  (P.P.): Polypropylene type
- Schematic diagram and Wiring Side of P.W.Board for this model are subject to change for improvement without prior notice.
- The indicated voltage in each section is the one measured by Digital Multimeter between such a section and the chassis with no signal given.
  1. In the tuner section,
     ( ) indicates AM
     < > indicates FM stereo
  2. In the main section, a tape is being played back.
  3. In the deck section, a tape is being played back.
     ( ) indicates the record state.
  4. In the power section, a tape is being played back.
  5. In the CD section, the CD is stopped.
- Parts marked with “ ⚠ ” (⊏ ニ ニ ニ ⊐) are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

REF. NO	DESCRIPTION	POSITION
SW1	OPEN/CLOSE	ON—OFF
SW2	CLAMP	ON—OFF
SW3	DISC NUMBER	ON—OFF
SW4	PICKUP IN	ON—OFF
SW701	ON/STAND-BY	ON—OFF
SW702	CLOCK	ON—OFF
SW703	TIMER/SLEEP	ON—OFF
SW704	RTY.TI SEARCH	ON—OFF
SW705	EON	ON—OFF
SW706	ASPM	ON—OFF
SW707	DISPLAY MODE	ON—OFF
SW708	STATION	ON—OFF
SW709	DISC 1	ON—OFF
SW710	DISC 2	ON—OFF
SW711	DISC 3	ON—OFF
SW712	DISC SKIP	ON—OFF

REF. NO	DESCRIPTION	POSITION
SW713	OPEN/CLOSE	ON—OFF
SW714	DIMMER	ON—OFF
SW715	X-BASS	ON—OFF
SW716	EQUALIZER	ON—OFF
SW722	CD	ON—OFF
SW723	TAPE	ON—OFF
SW724	TUNING/TIME DOWN	ON—OFF
SW725	MEMORY/SET	ON—OFF
SW726	PRESET DOWN	ON—OFF
SW727	PRESET UP	ON—OFF
SW728	PLAY/REPEAT	ON—OFF
SW729	STOP	ON—OFF
SW731	REC/PAUSE	ON—OFF
SW732	TUNING/TIME UP	ON—OFF
SW733	VIDEO/AUX	ON—OFF
SW734	TUNER (BAND)	ON—OFF





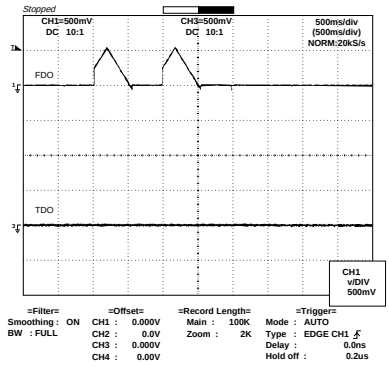
2SC380 O	KTA1271 Y	4204SRT7
2SA1015 GR	KTA1273 Y	SLI325YC
2SC1845 F	KTA1274 Y	
KRC102 M	KTC2026	
KRC104 M	KTC3199 GR	
KTA1266 GR	KTC3203 Y	

Figure 19 TYPES OF TRANSISTOR AND LED

WAVEFORMS OF CD CIRCUIT

1 IC2 (24)

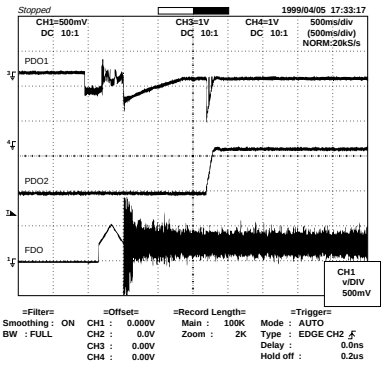
2 IC2 (23)



7 IC2 (1)

8 IC2 (2)

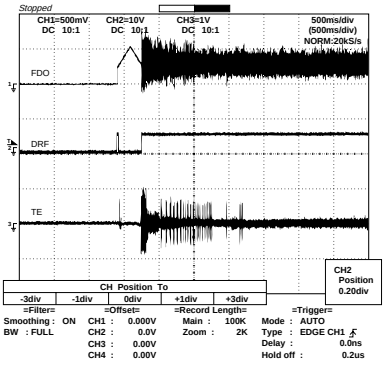
1 IC2 (24)



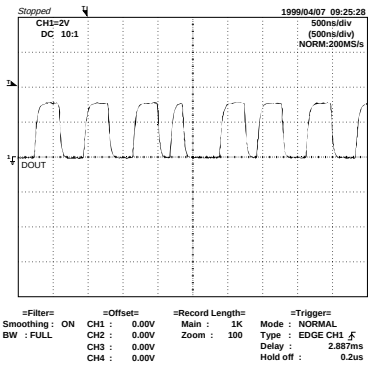
1 IC2 (24)

3 IC2 (72)

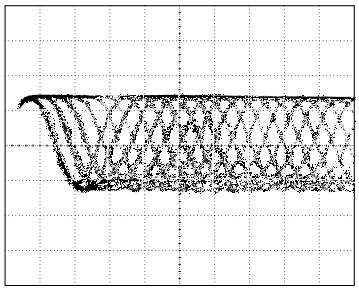
4 IC1 (18), IC2 (16)



9 IC2 (37)



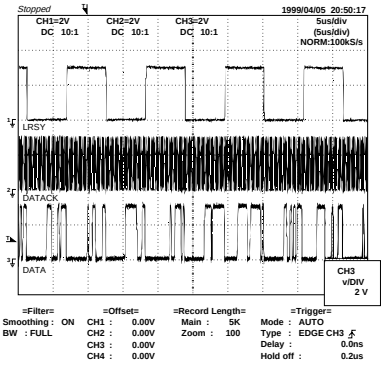
5 IC1 (27)



10 IC2 (57)

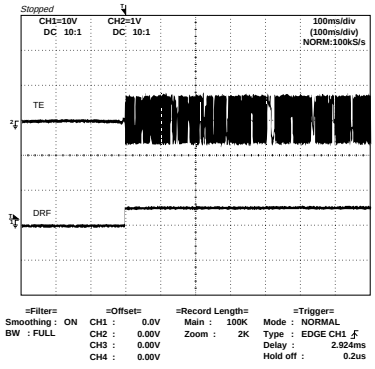
11 IC2 (58)

12 IC2 (59)



4 IC1 (18), IC2 (16)

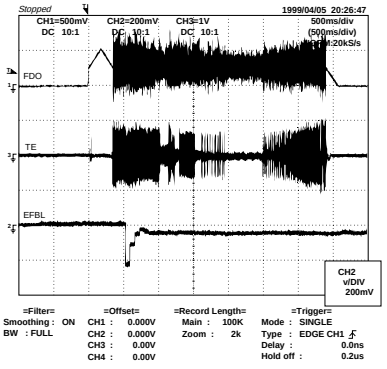
3 IC2 (72)



1 IC2 (24)

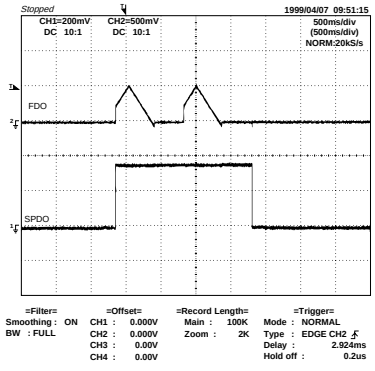
4 IC1 (18), IC2 (16)

13 IC1 (13), IC2 (22)



1 IC2 (24)

6 IC2 (25)



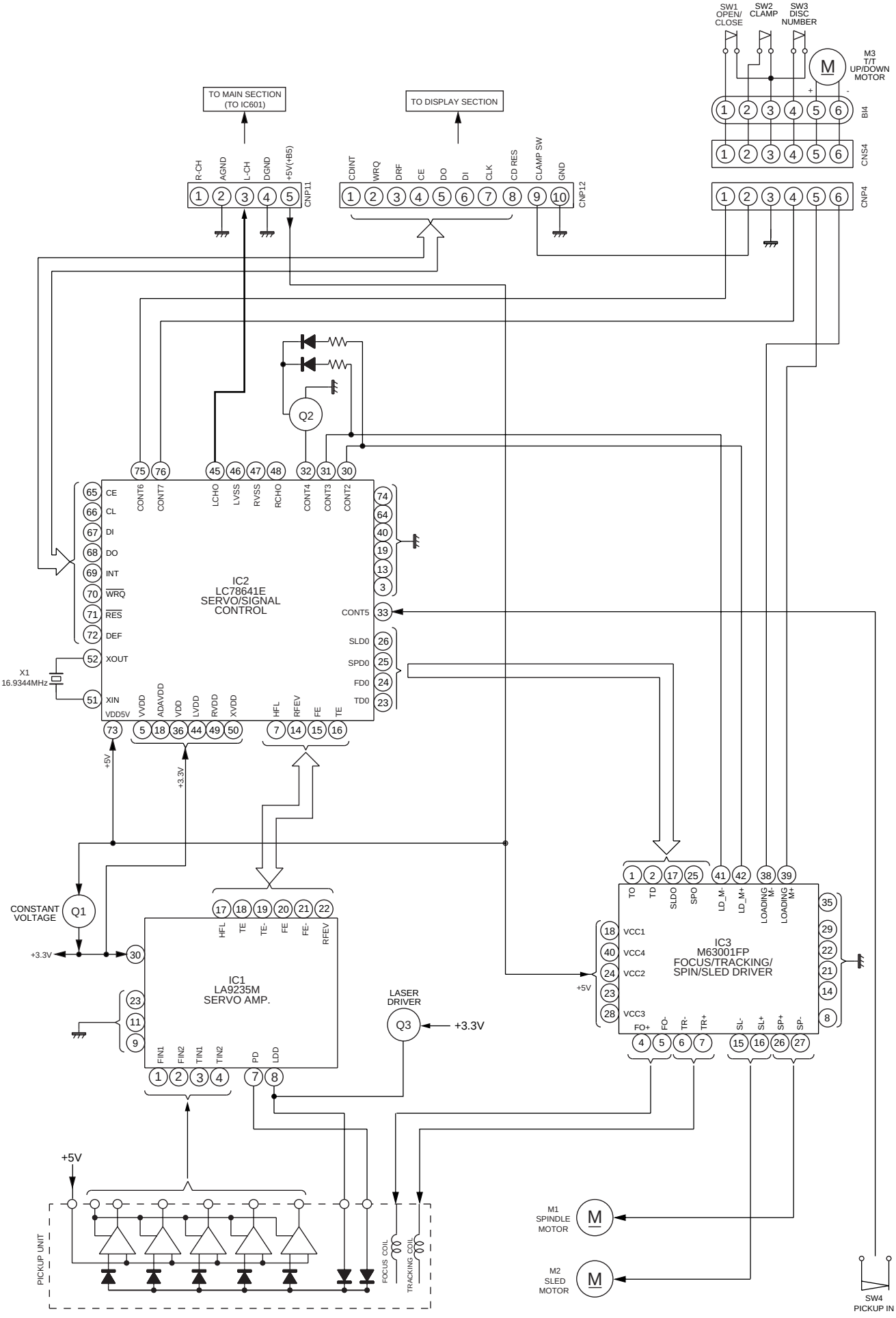


Figure 21 BLOCK DIAGRAM (1/3)

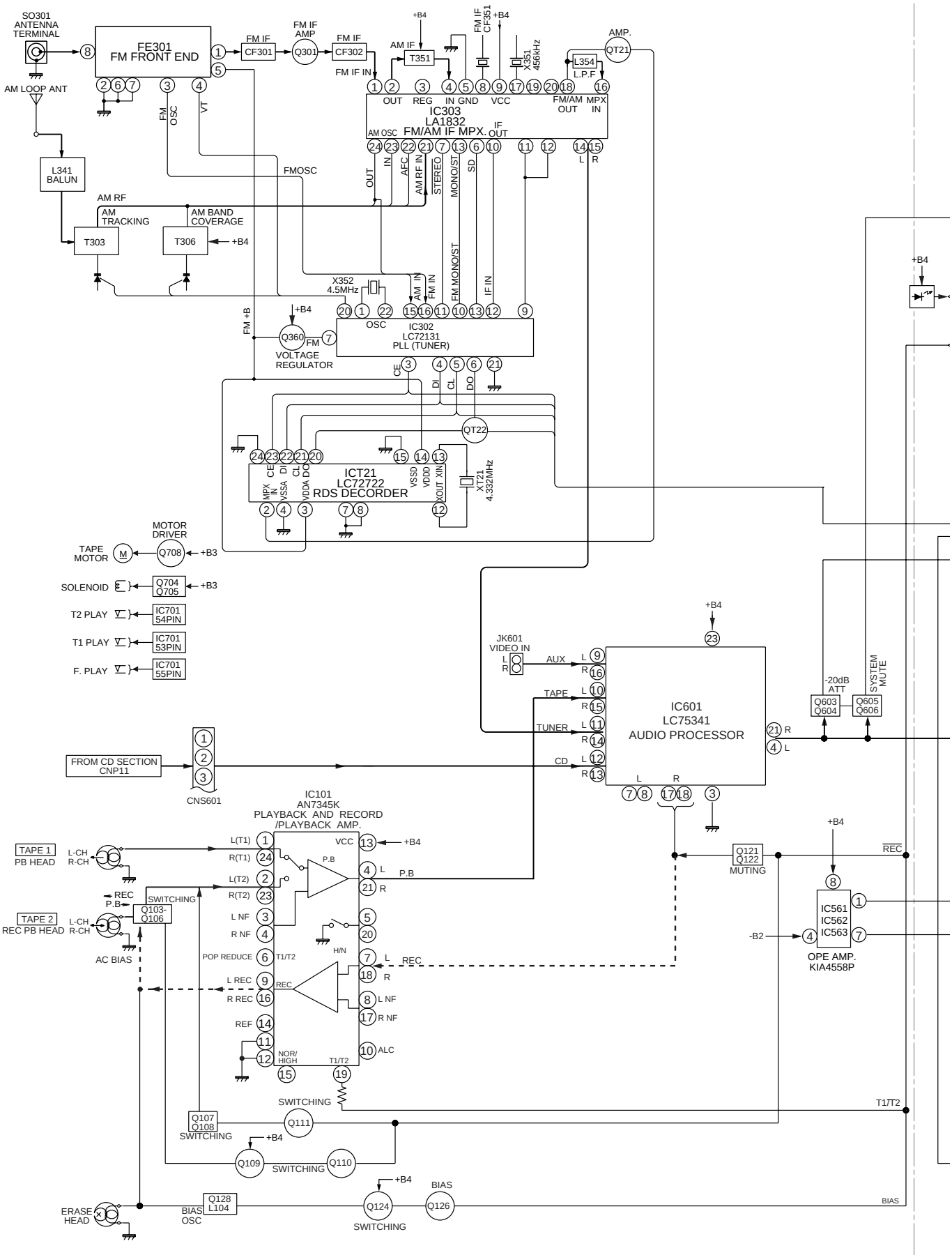


Figure 22 BLOCK DIAGRAM (2/3)

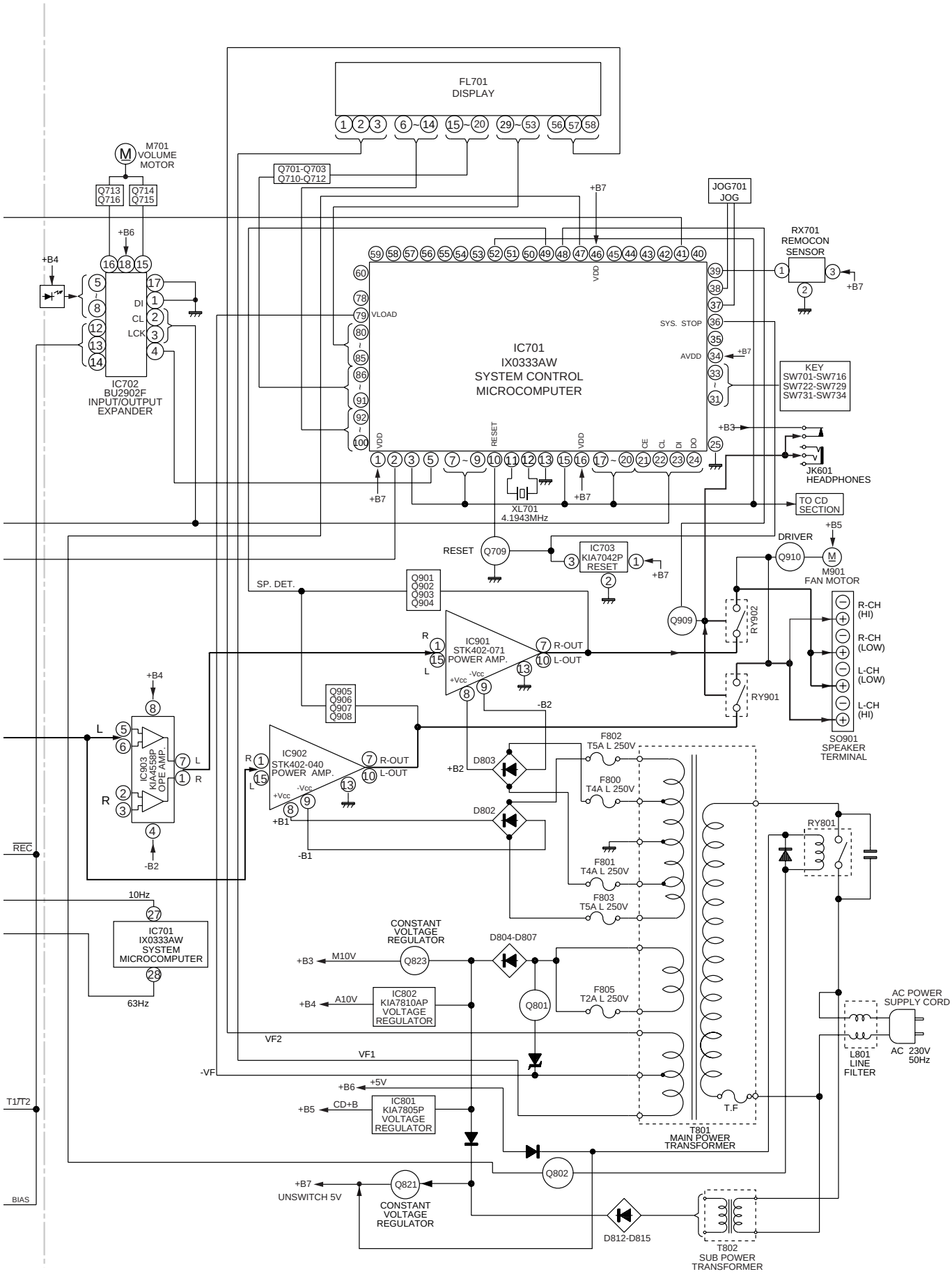


Figure 23 BLOCK DIAGRAM (3/3)

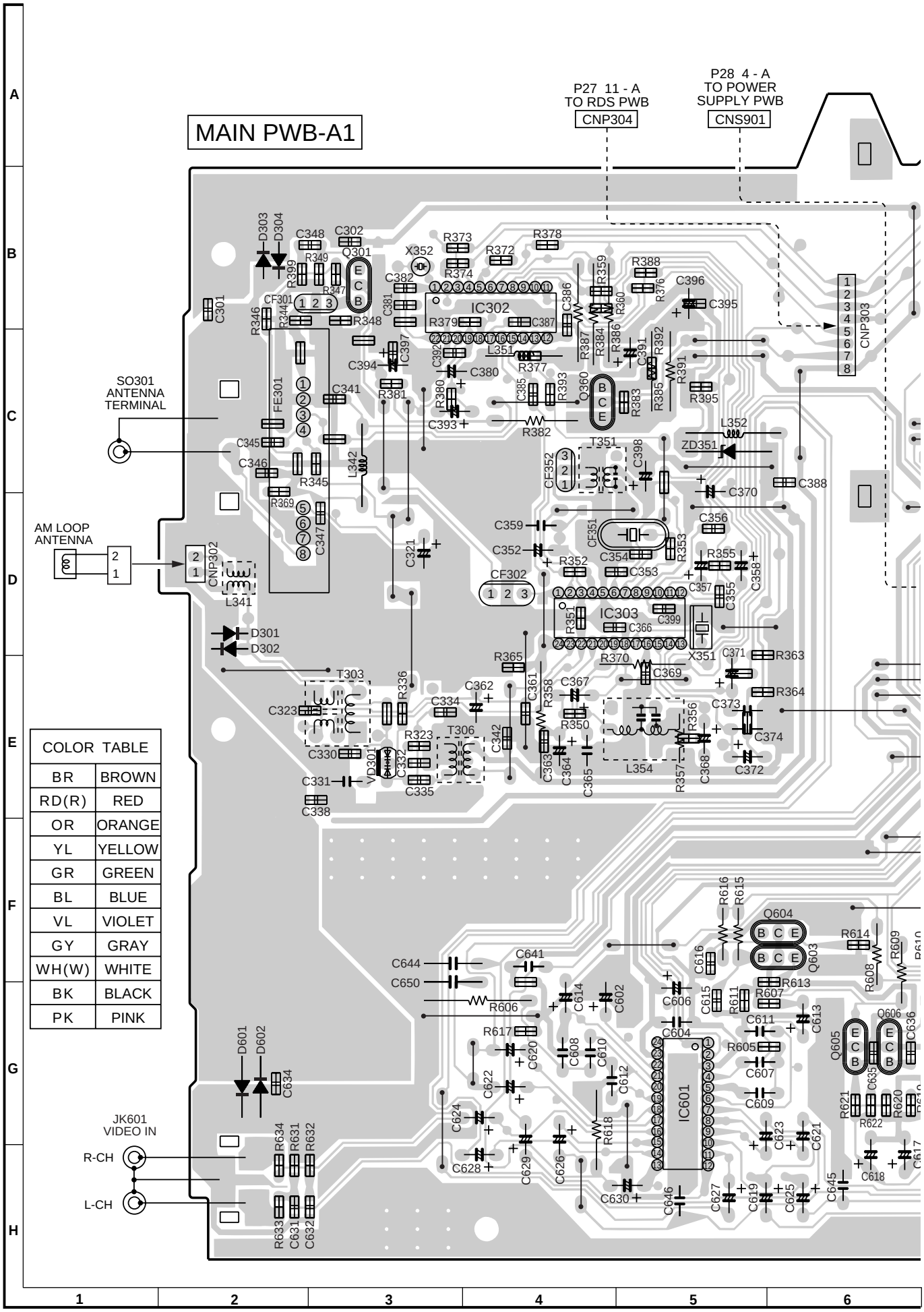


Figure 24 WIRING SIDE OF P.W.BOARD (1/8)

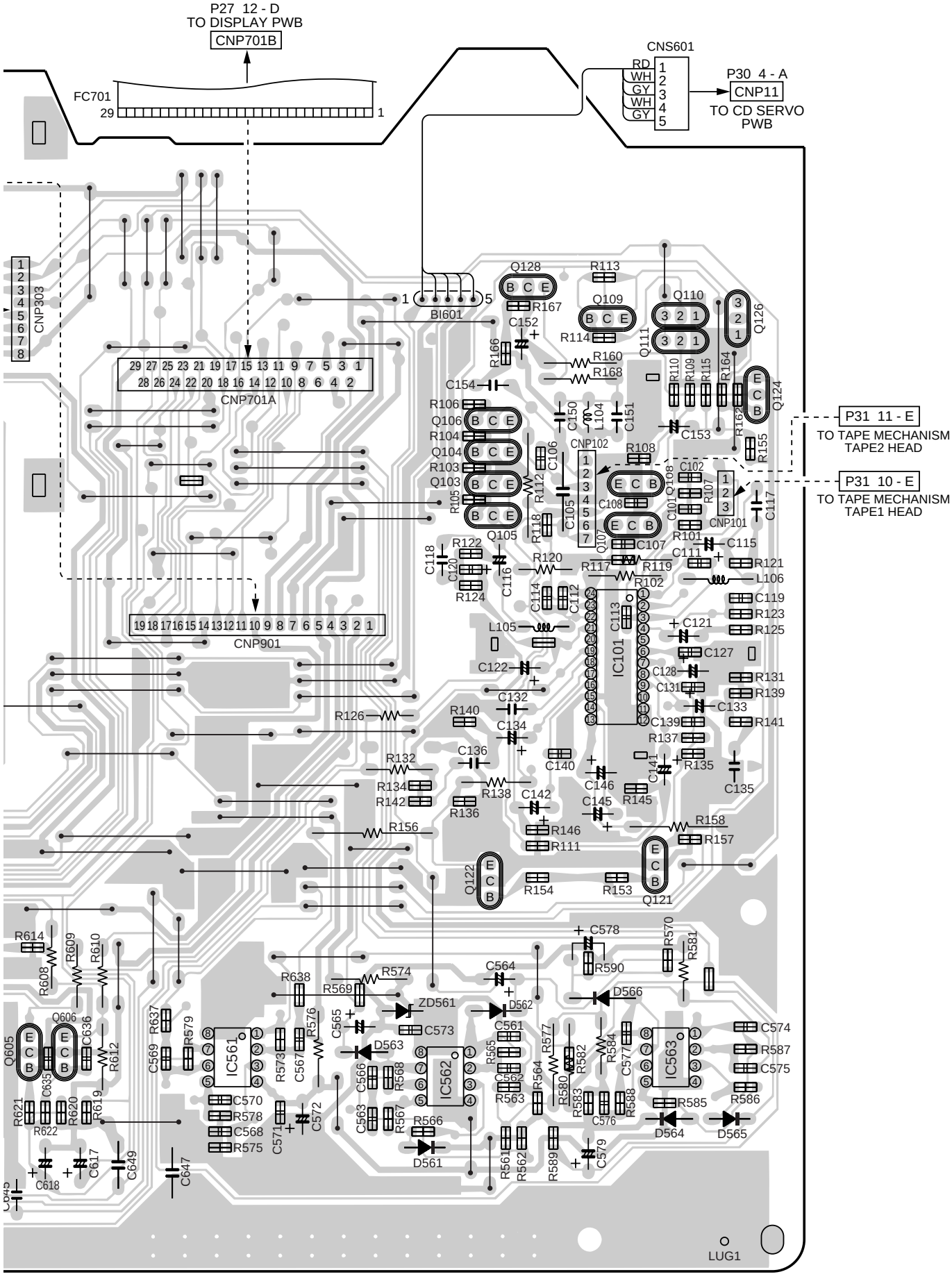


Figure 25 WIRING SIDE OF P.W.BOARD (2/8)

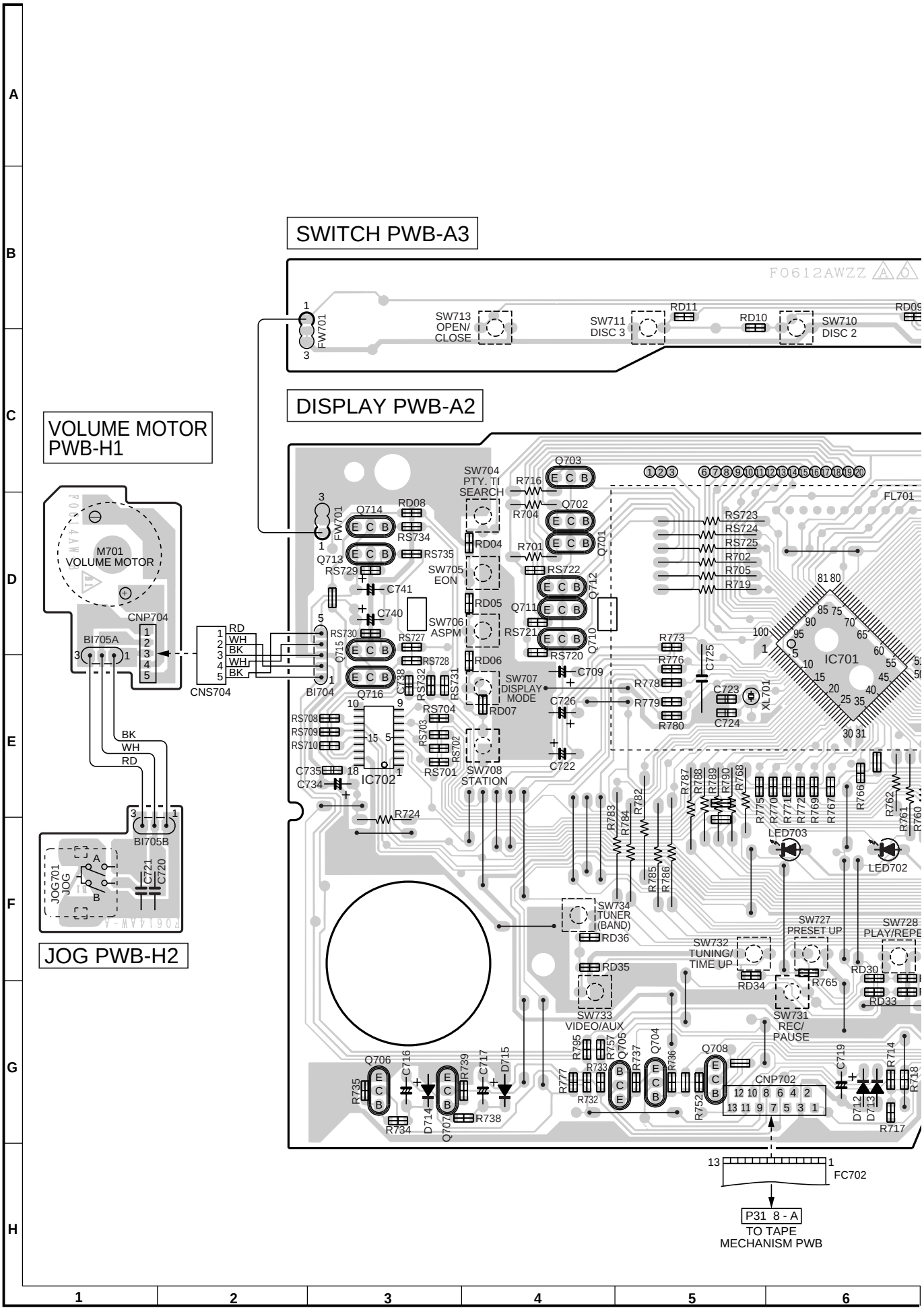
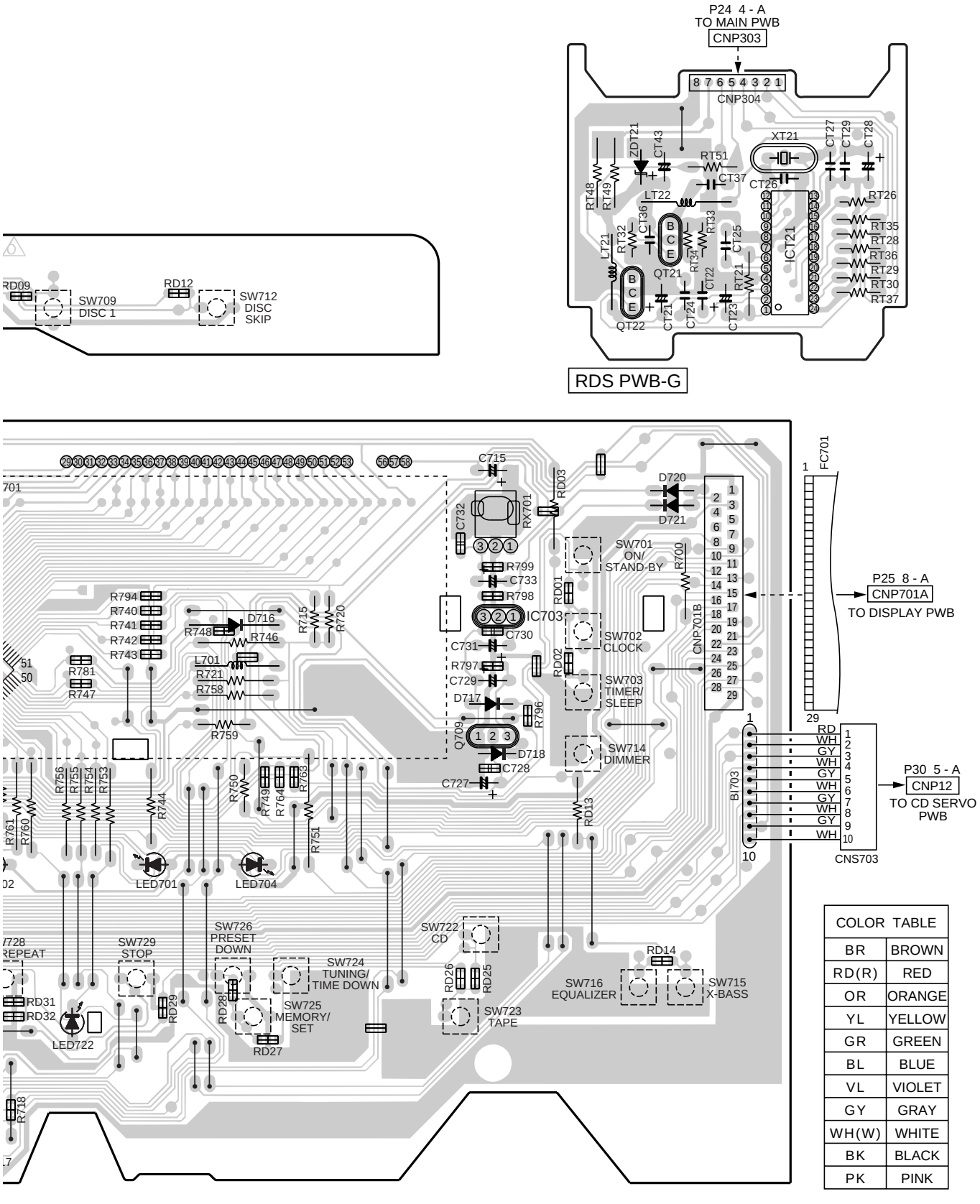


Figure 26 WIRING SIDE OF P.W.BOARD (3/8)



7	8	9	10	11	12

Figure 27 WIRING SIDE OF P.W.BOARD (4/8)

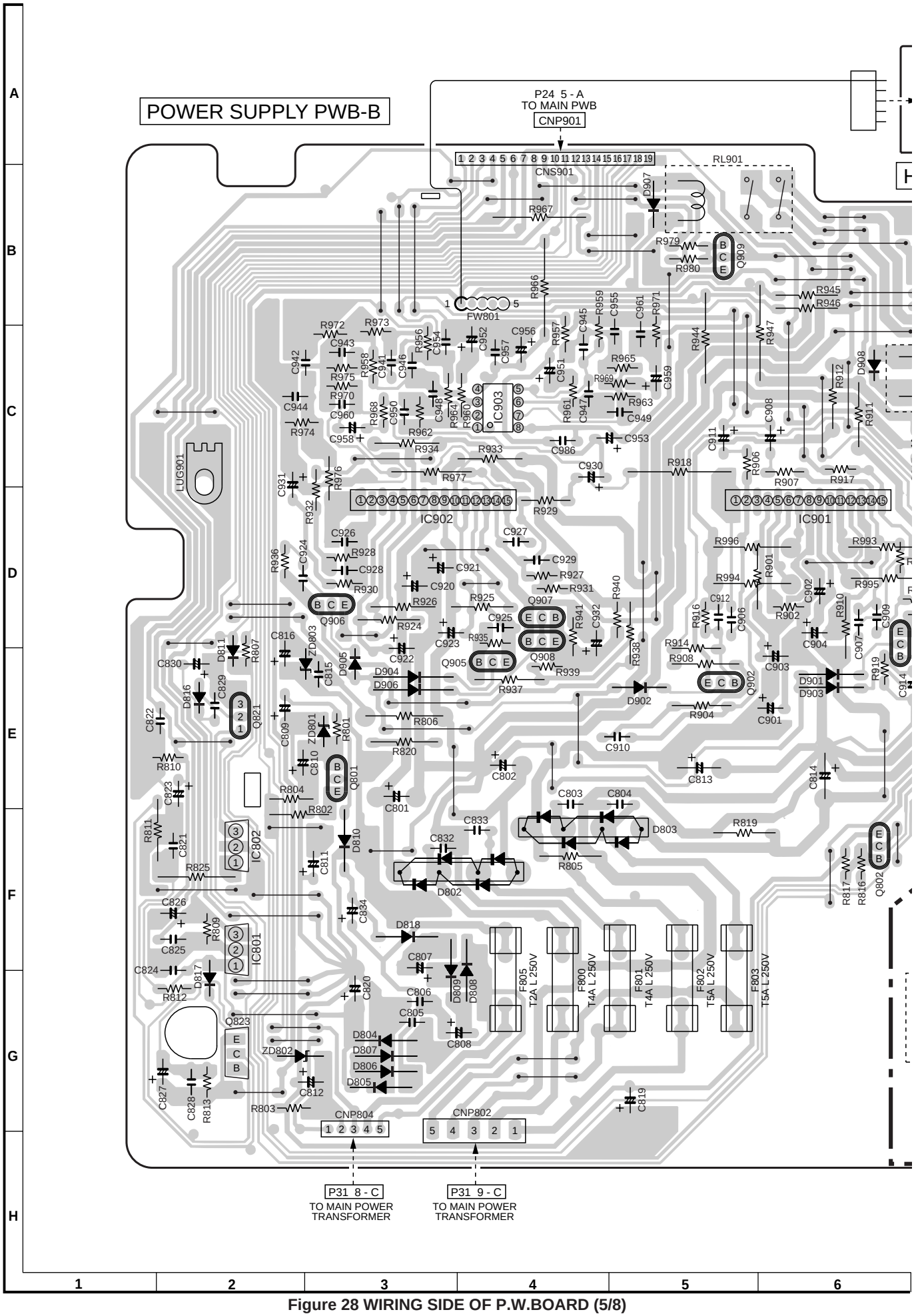
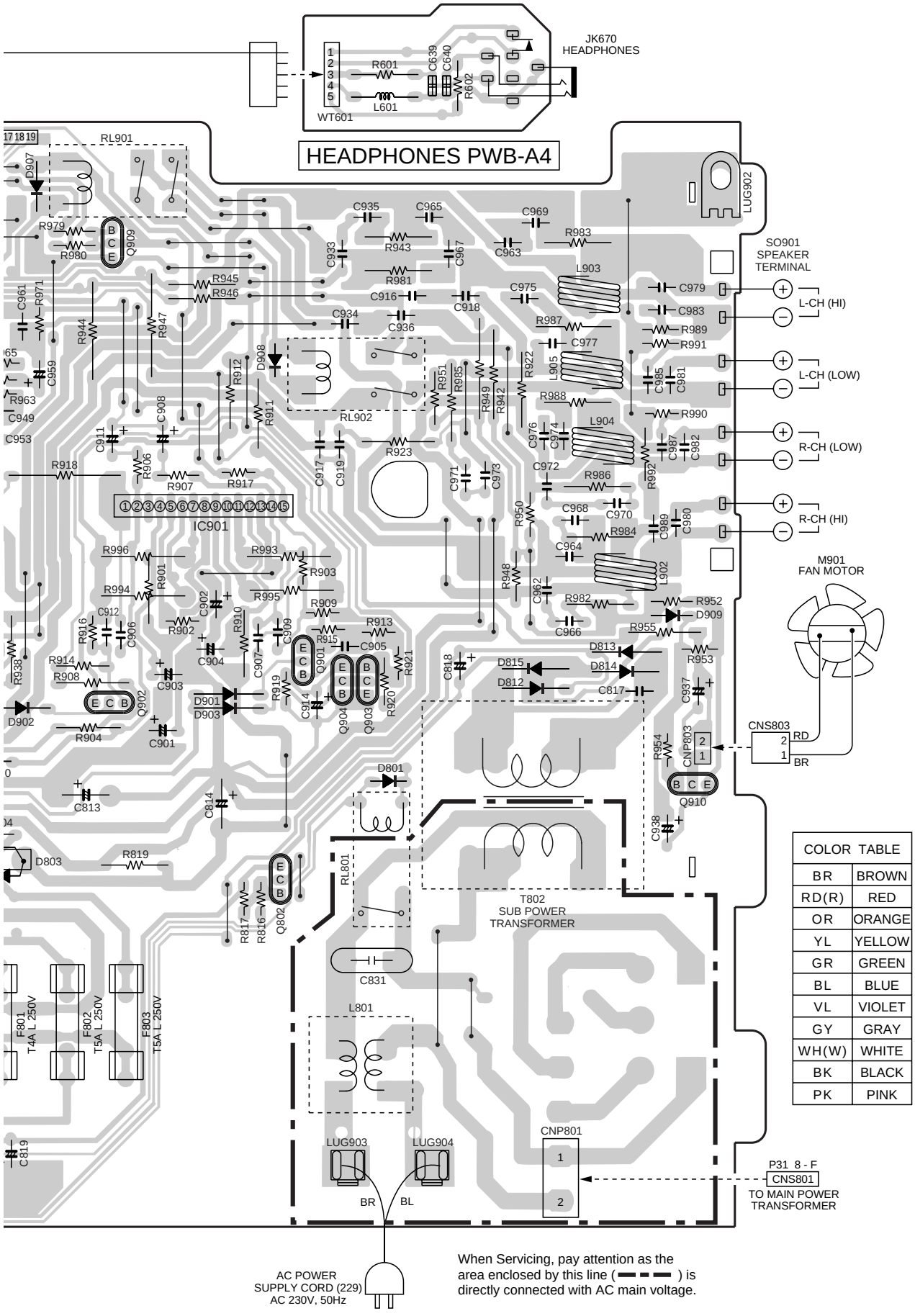


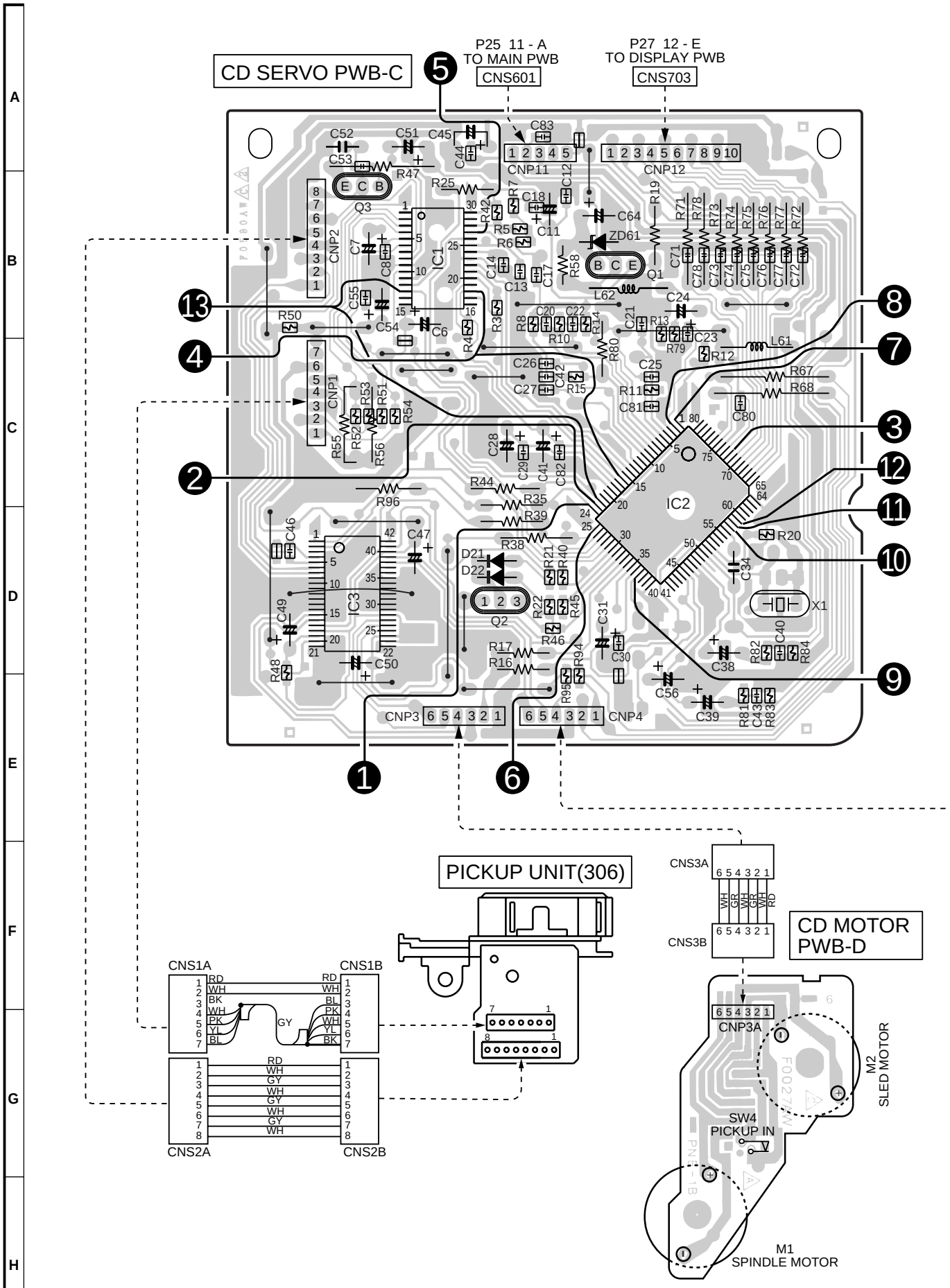
Figure 28 WIRING SIDE OF P.W.BOARD (5/8)



COLOR TABLE	
BR	BROWN
RD(R)	RED
OR	ORANGE
YL	YELLOW
GR	GREEN
BL	BLUE
VL	VIOLET
GY	GRAY
WH(W)	WHITE
BK	BLACK
PK	PINK

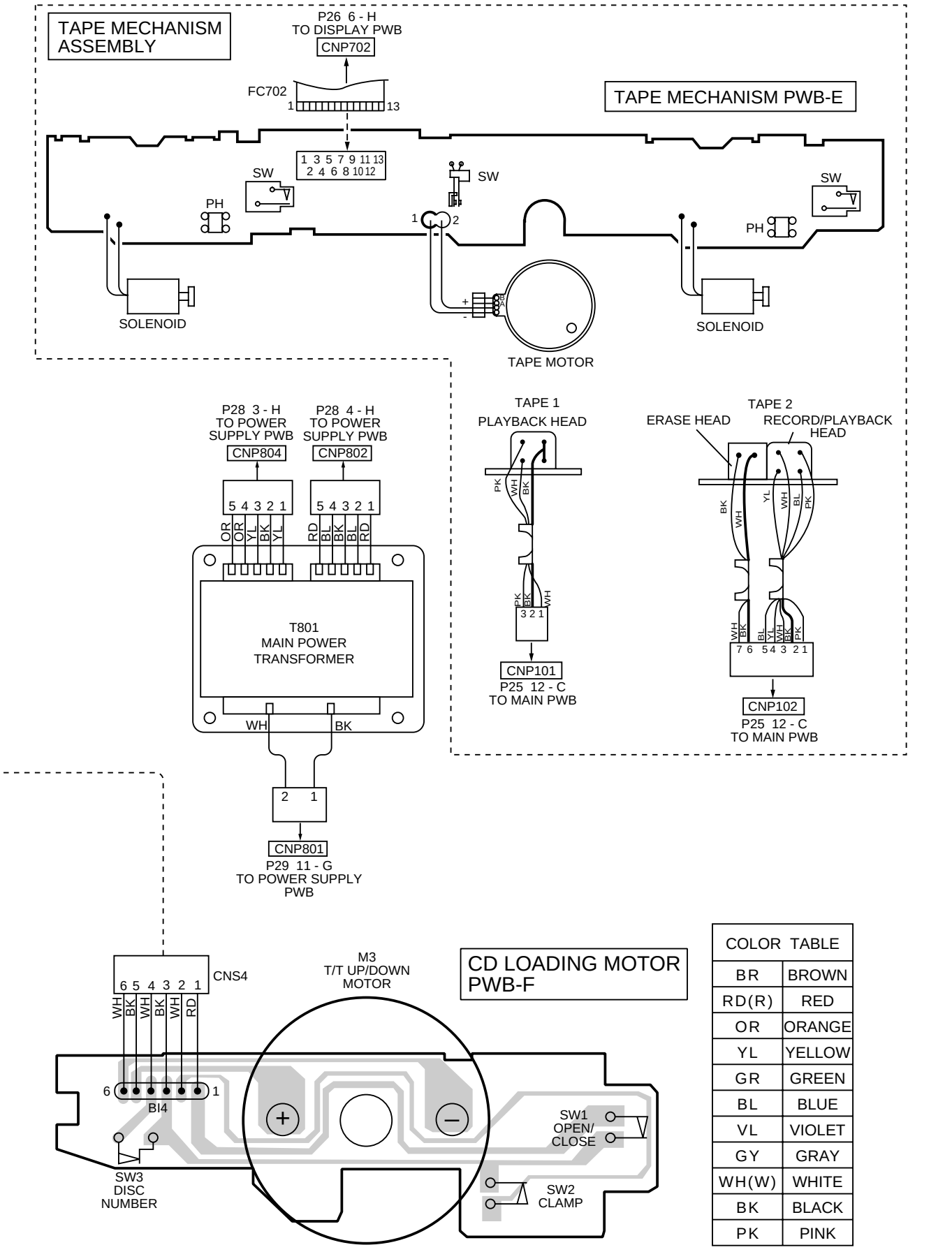
7	8	9	10	11	12

Figure 29 WIRING SIDE OF P.W.BOARD (6/8)



• The numbers ❶ to ⓭ are waveform numbers shown in page 20.

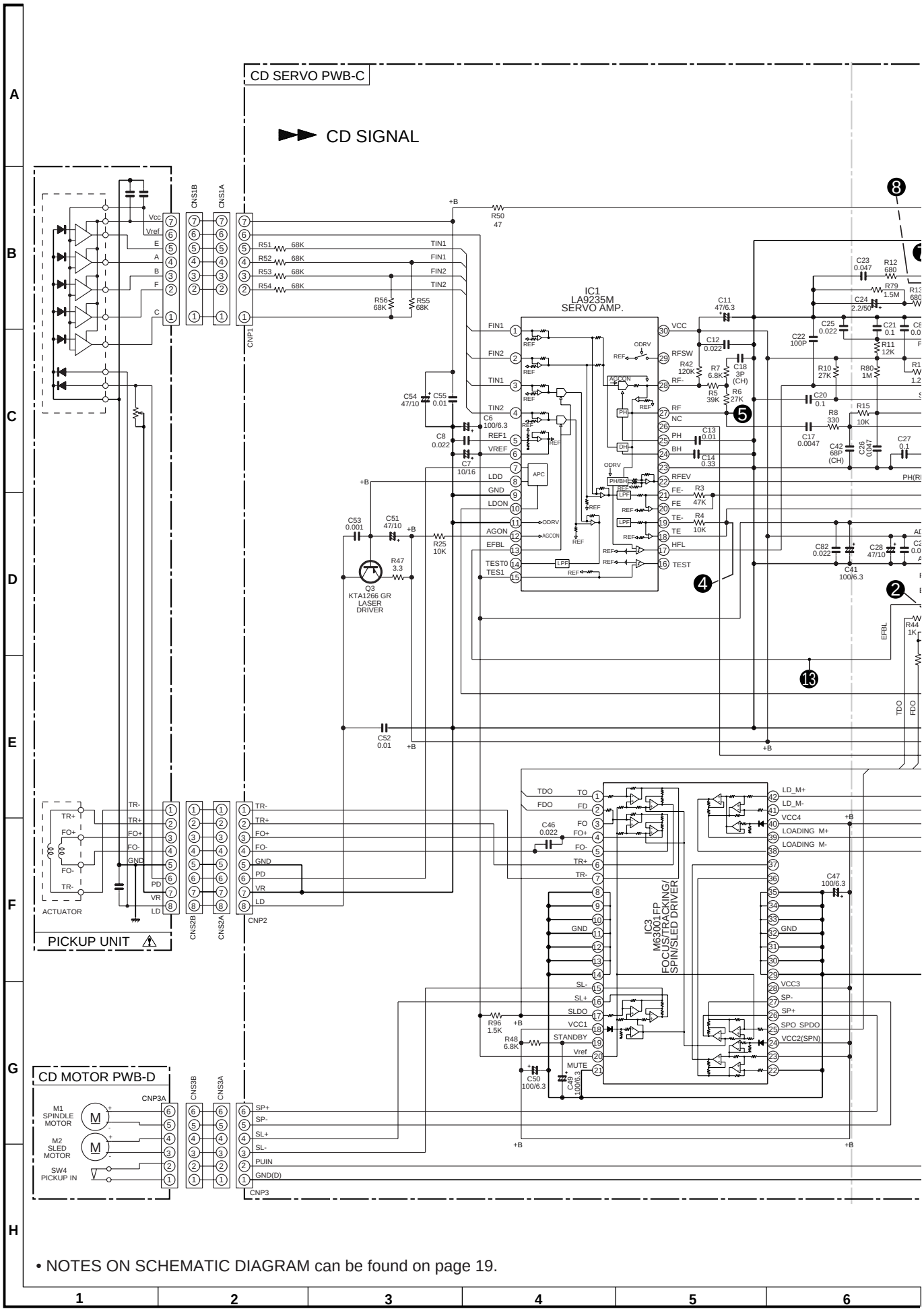
Figure 30 WIRING SIDE OF P.W.BOARD (7/8)



COLOR TABLE	
BR	BROWN
RD(R)	RED
OR	ORANGE
YL	YELLOW
GR	GREEN
BL	BLUE
VL	VIOLET
GY	GRAY
WH(W)	WHITE
BK	BLACK
PK	PINK

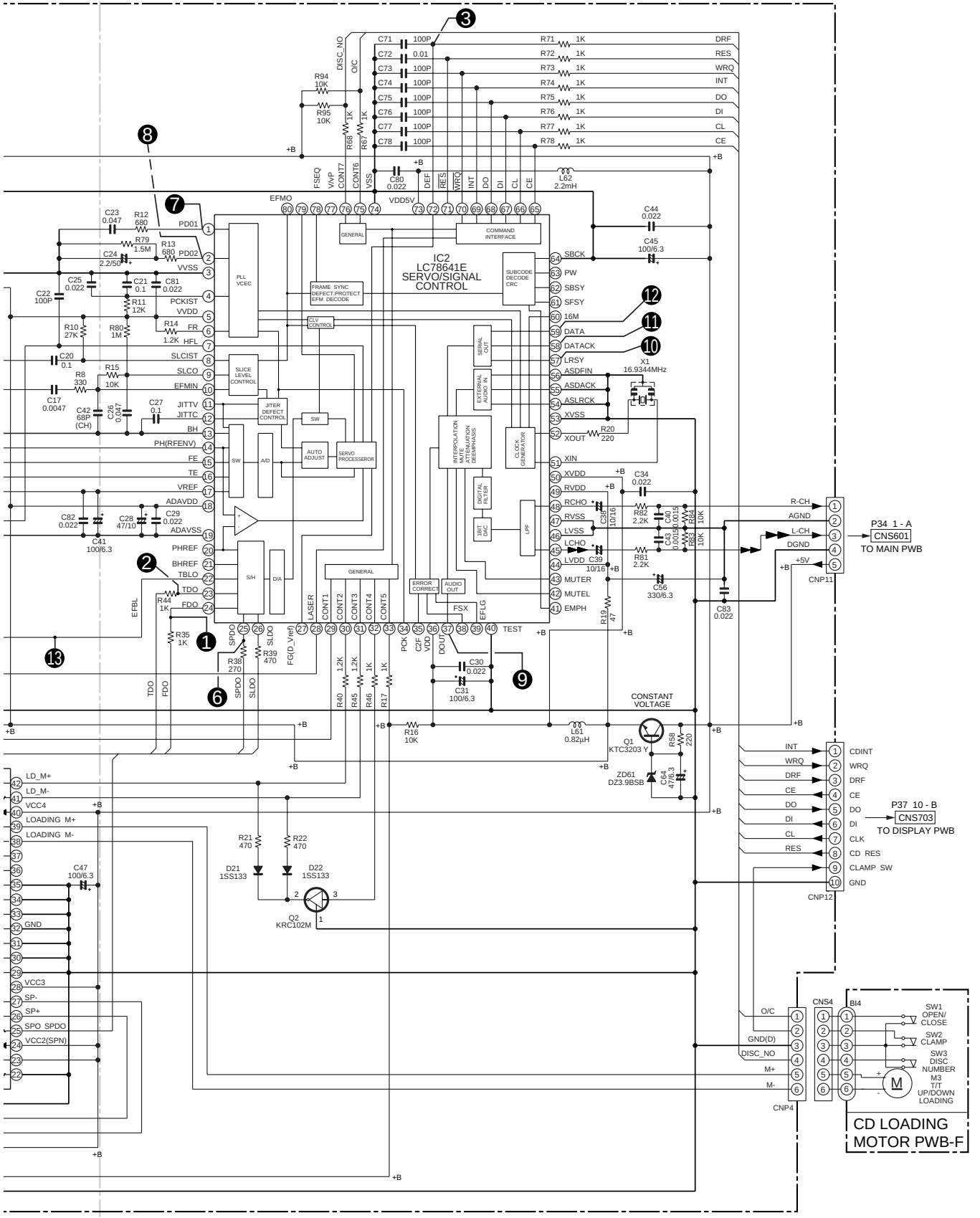
7	8	9	10	11	12

Figure 31 WIRING SIDE OF P.W.BOARD (8/8)



• NOTES ON SCHEMATIC DIAGRAM can be found on page 19.

Figure 32 SCHEMATIC DIAGRAM (1/11)



• The numbers 1 to 13 are waveform numbers shown in page 20.

7	8	9	10	11	12

Figure 33 SCHEMATIC DIAGRAM (2/11)

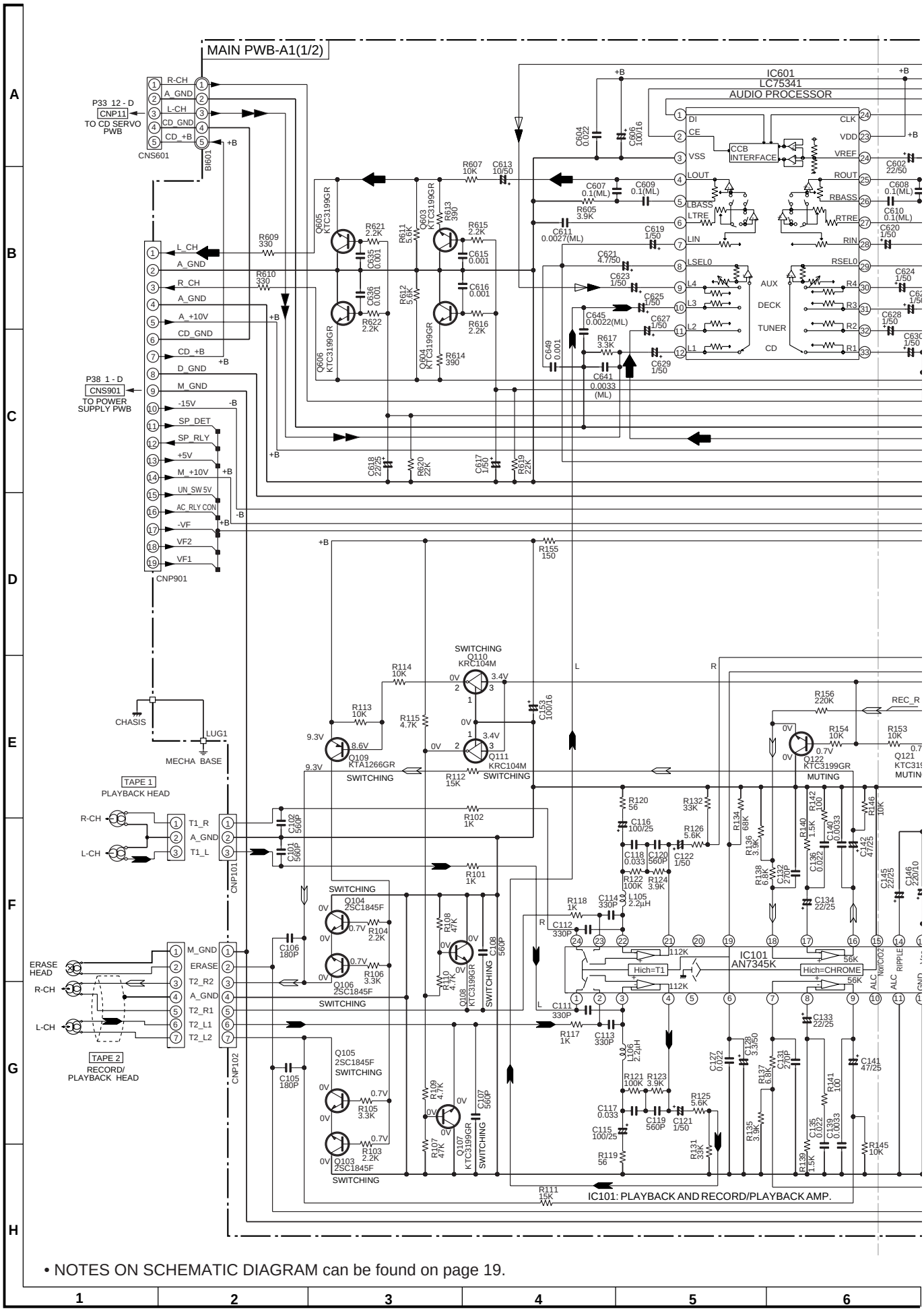
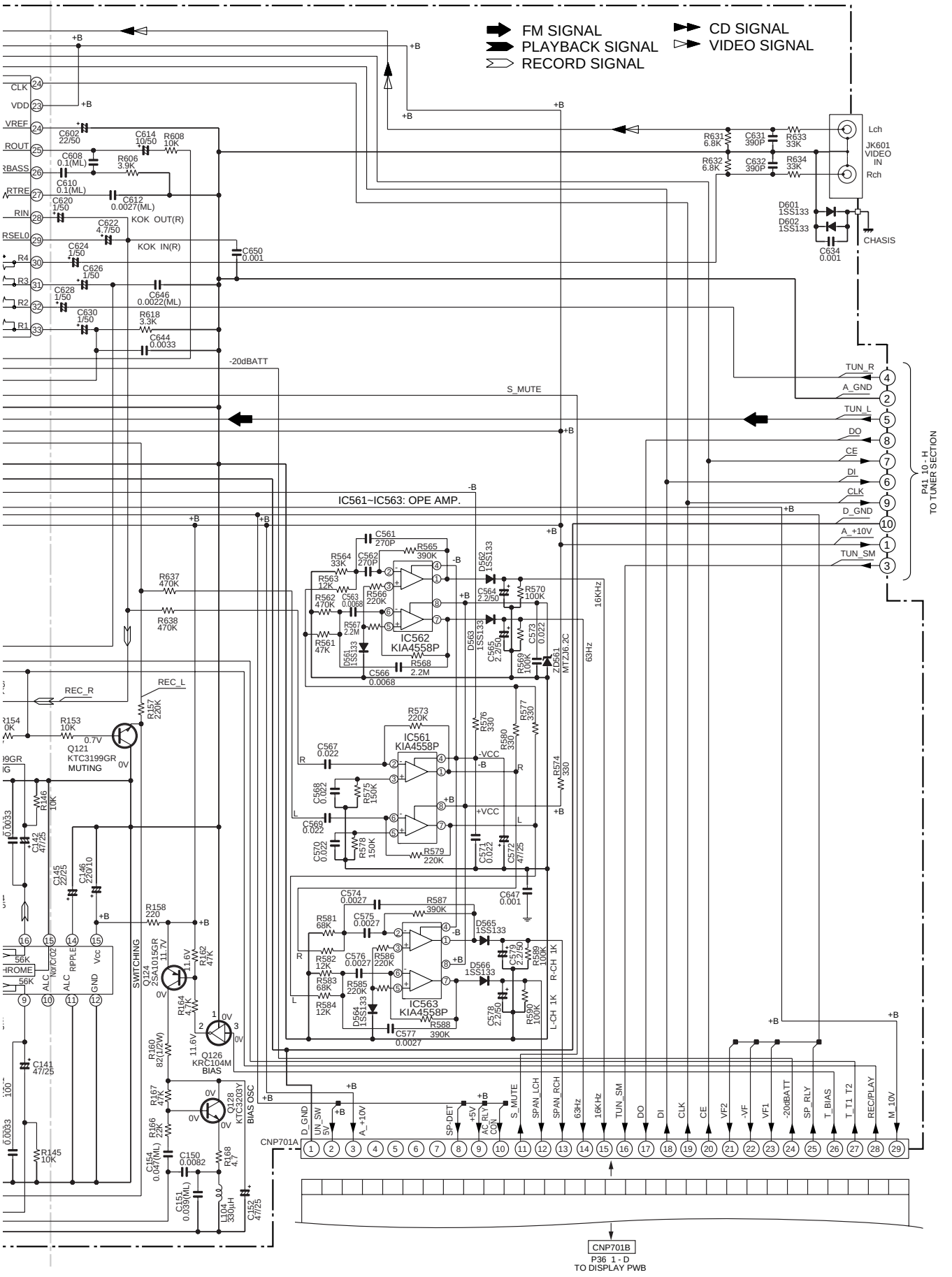
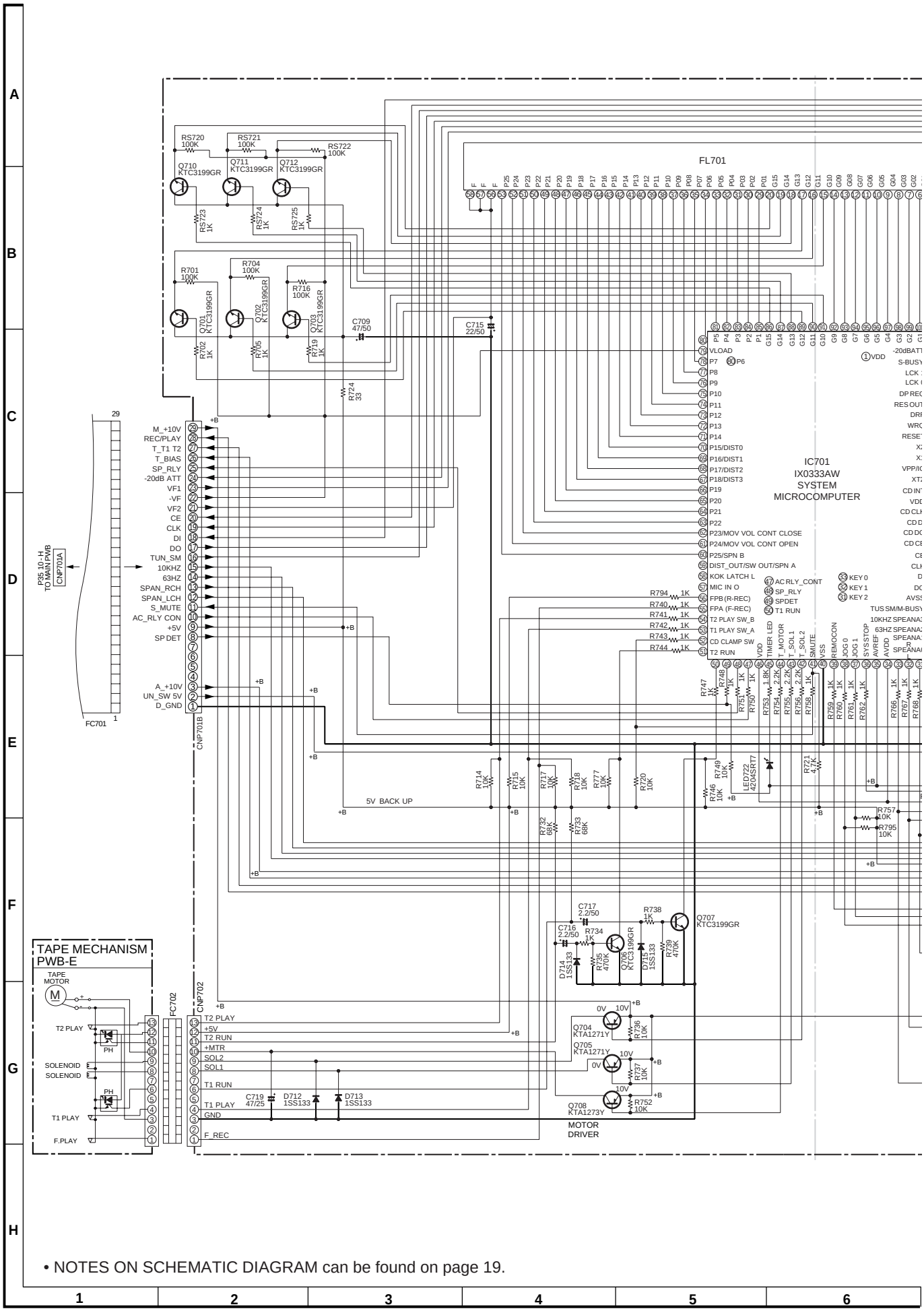


Figure 34 SCHEMATIC DIAGRAM (3/11)



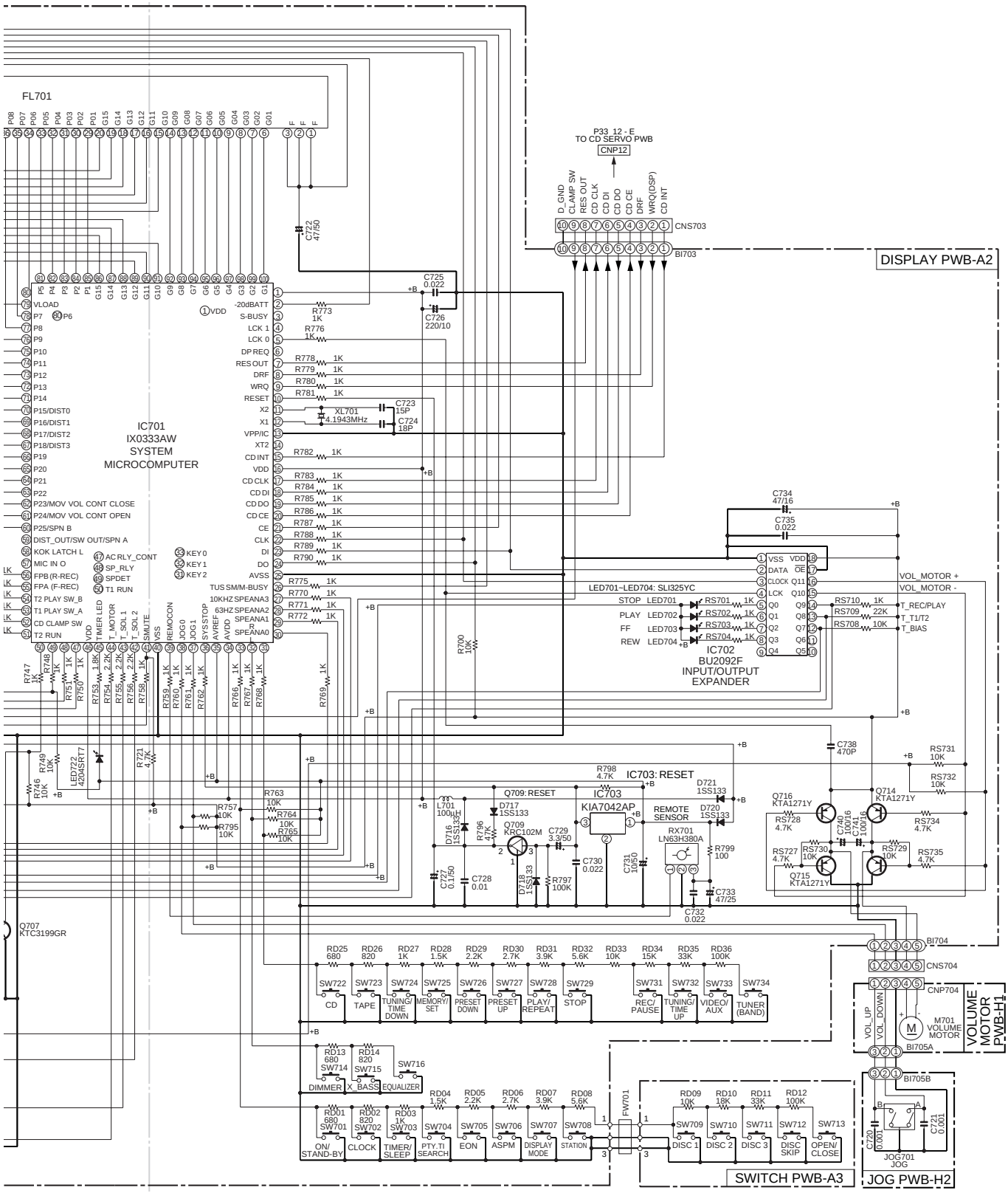
7	8	9	10	11	12

Figure 35 SCHEMATIC DIAGRAM (4/11)



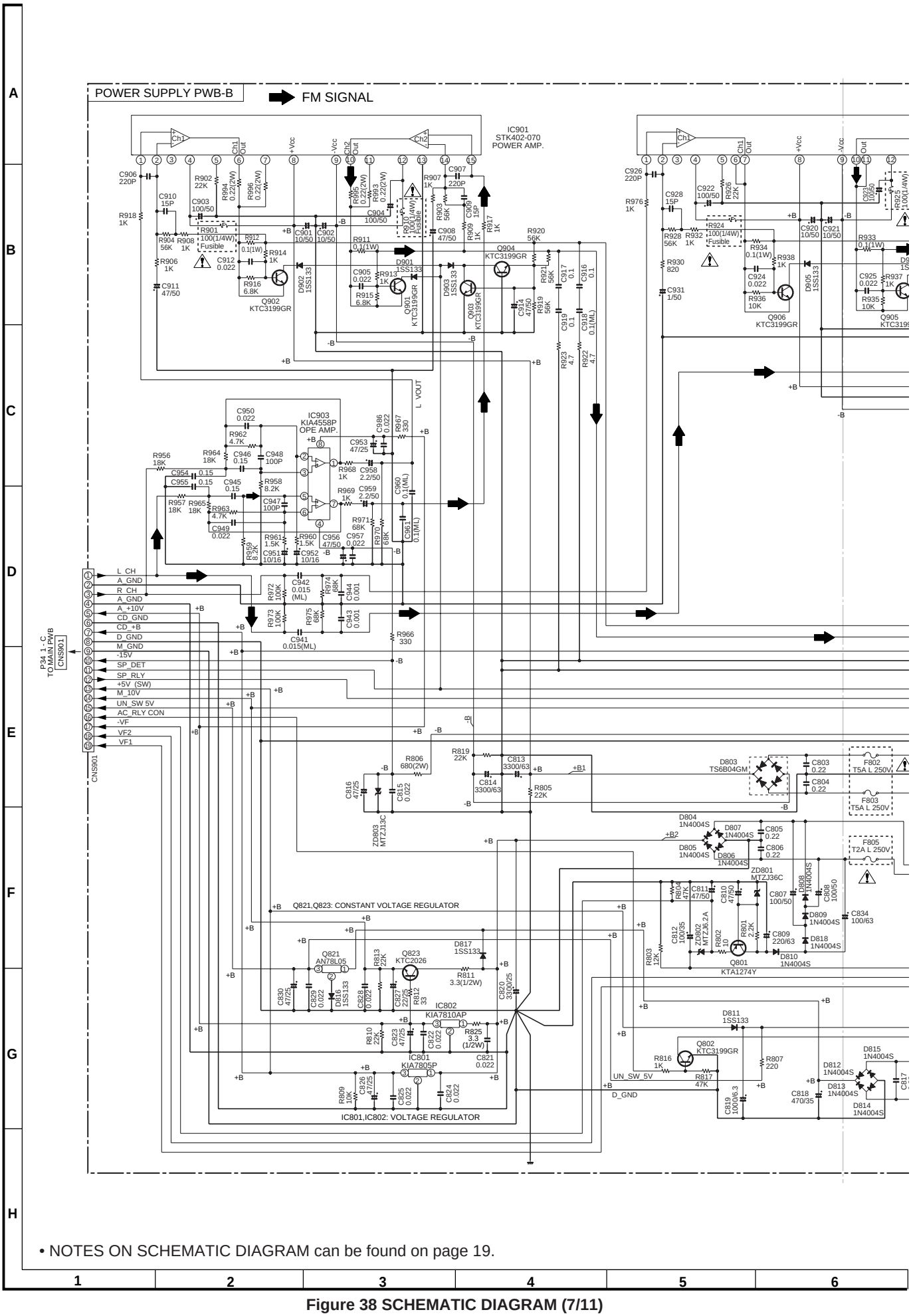
• NOTES ON SCHEMATIC DIAGRAM can be found on page 19.

Figure 36 SCHEMATIC DIAGRAM (5/11)



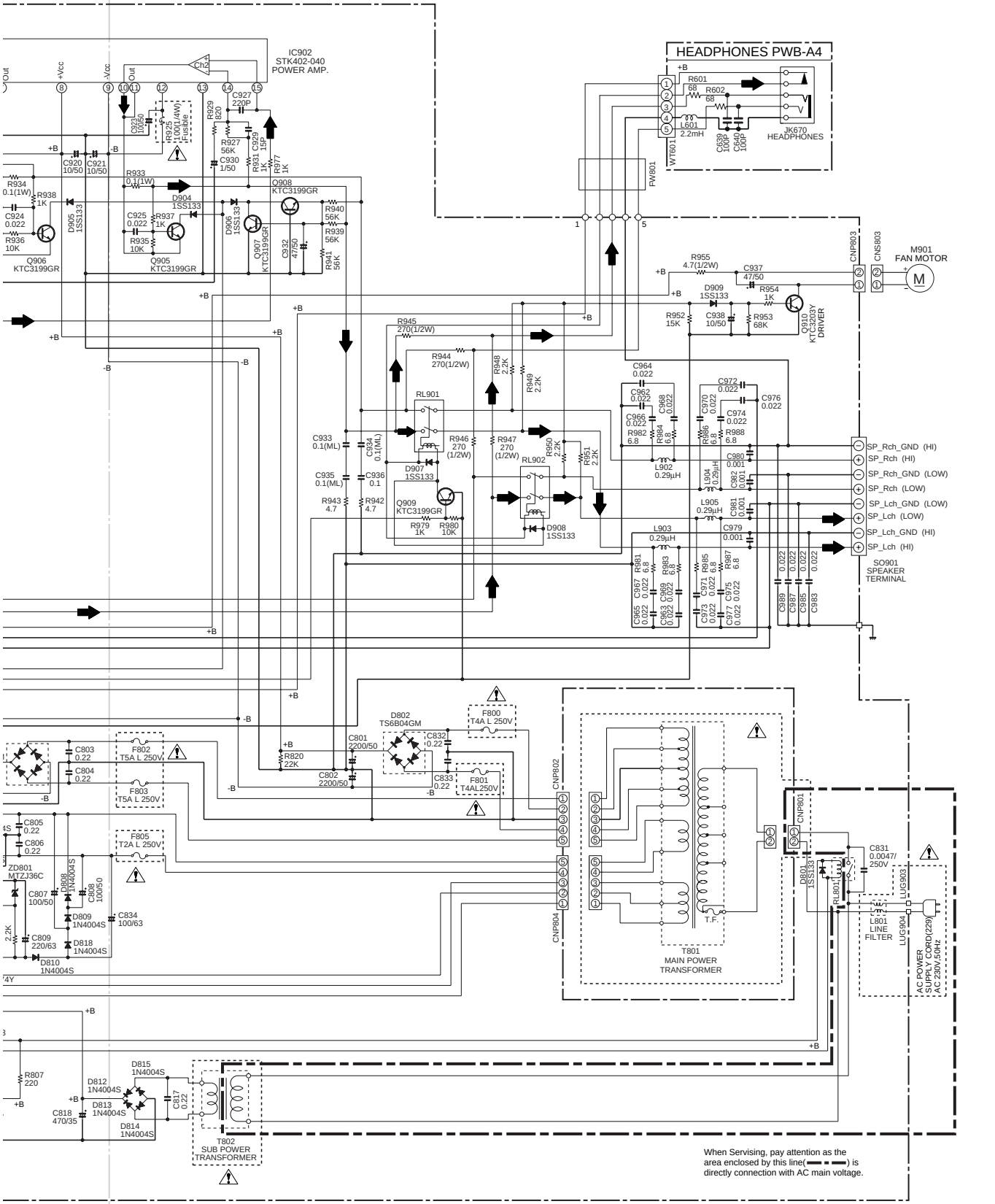
7	8	9	10	11	12

Figure 37 SCHEMATIC DIAGRAM (6/11)



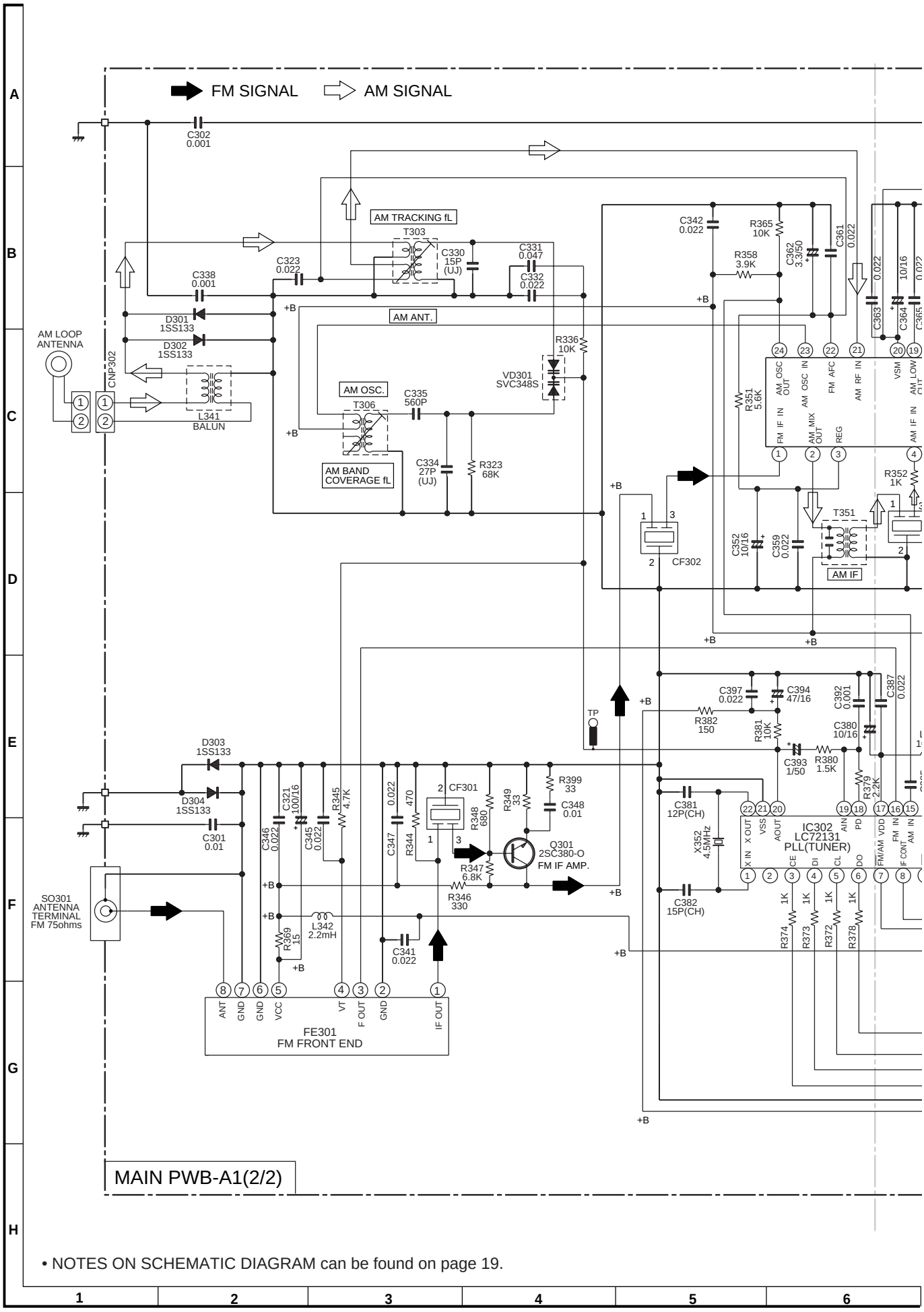
• NOTES ON SCHEMATIC DIAGRAM can be found on page 19.

Figure 38 SCHEMATIC DIAGRAM (7/11)



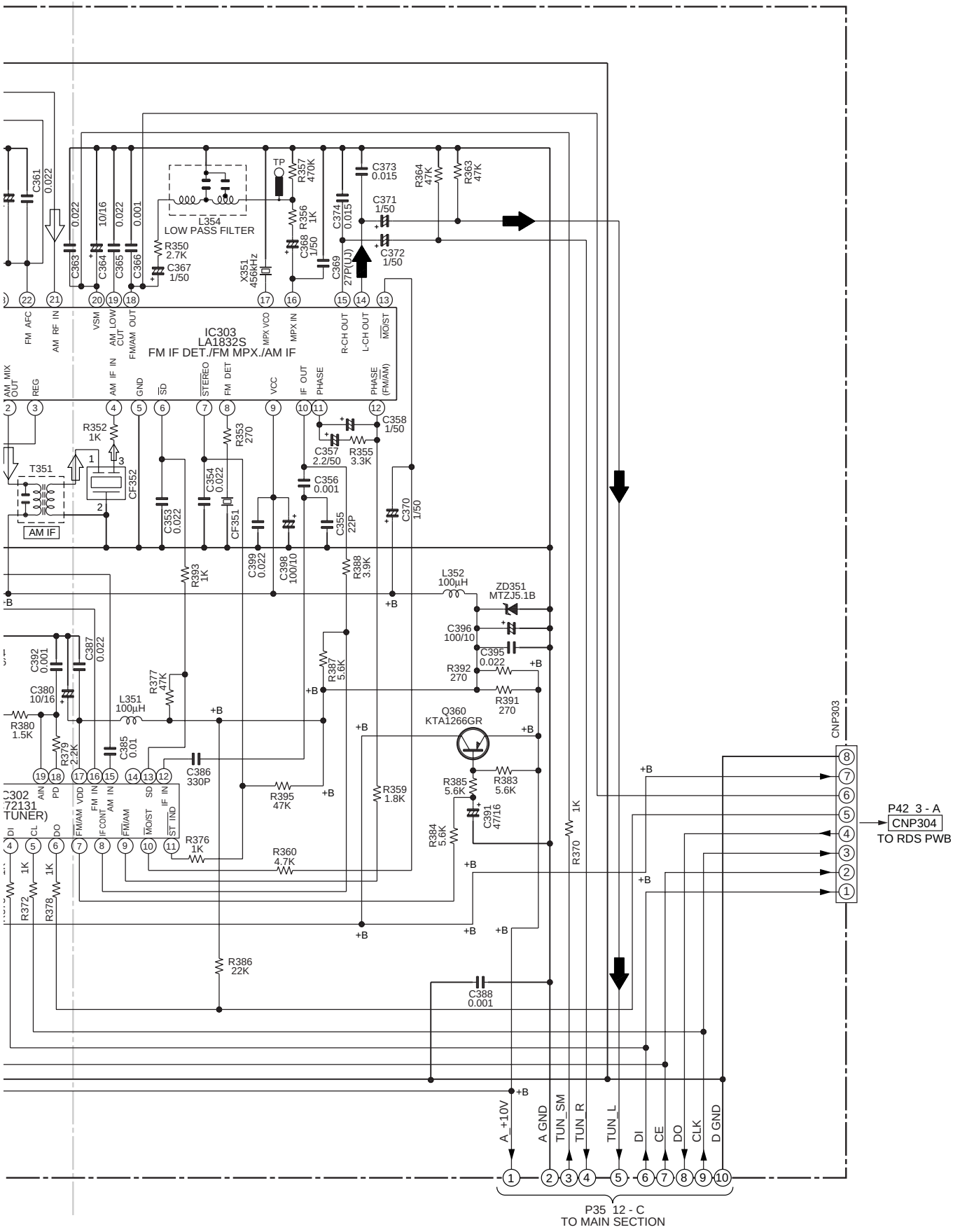
7	8	9	10	11	12

Figure 39 SCHEMATIC DIAGRAM (8/11)



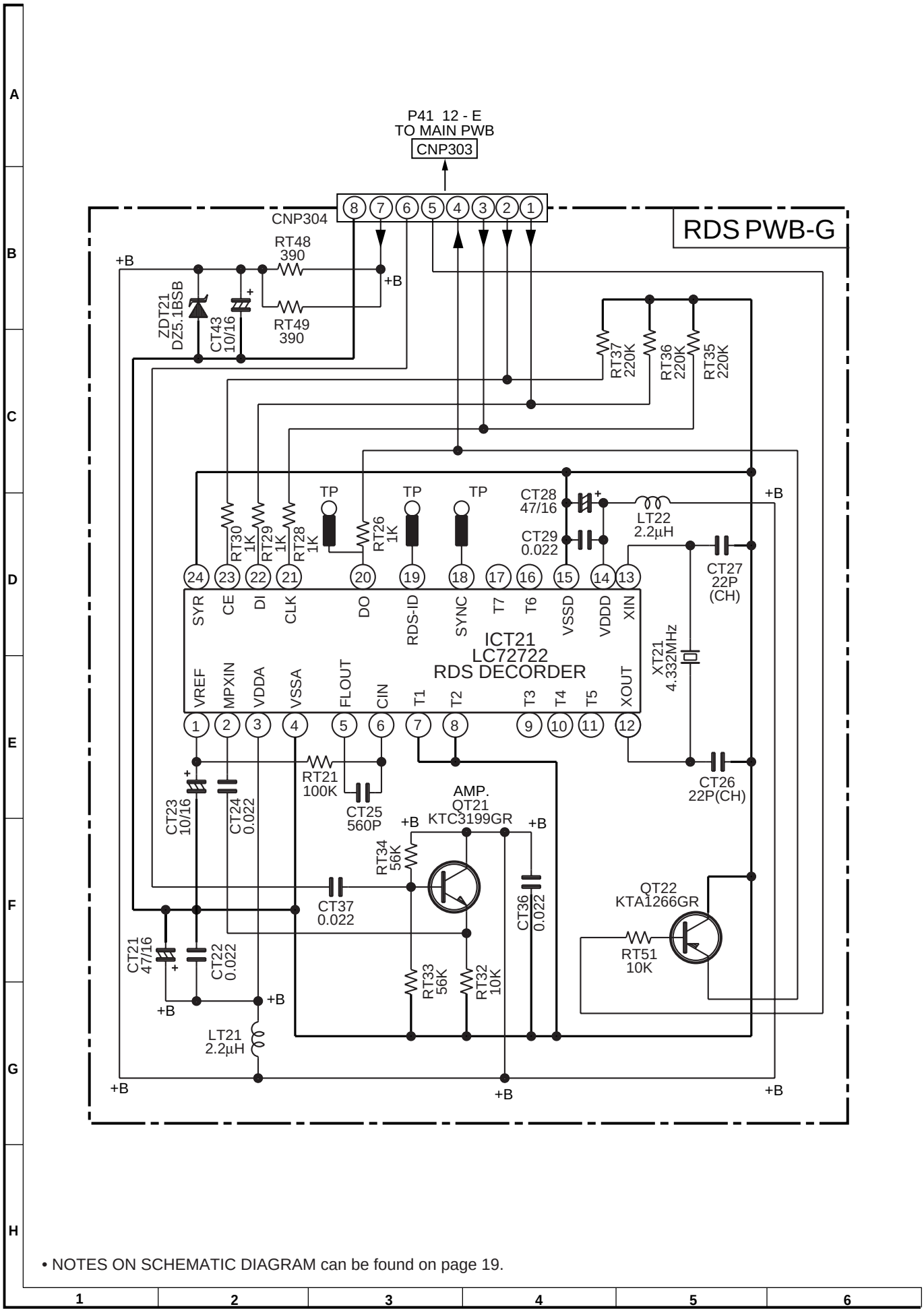
• NOTES ON SCHEMATIC DIAGRAM can be found on page 19.

Figure 40 SCHEMATIC DIAGRAM (9/11)



7	8	9	10	11	12

Figure 41 SCHEMATIC DIAGRAM (10/11)



• NOTES ON SCHEMATIC DIAGRAM can be found on page 19.

Figure 42 SCHEMATIC DIAGRAM (11/11)

VOLTAGE

IC1	
PIN NO.	VOLTAGE
1	1.6V
2	1.6V
3	1.6V
4	1.6V
5	1.6V
6	1.6V
7	0V
8	2.6V
9	0V
10	0V
11	0V
12	3.3V
13	1.6V
14	1.6V
15	1.6V
16	0V
17	0V
18	1.6V
19	1.6V
20	1.6V
21	1.6V
22	1.6V
23	0V
24	1.6V
25	0V
26	0V
27	0V
28	1.6V
29	1.6V
30	3.3V

IC3	
PIN NO.	VOLTAGE
1	1.6V
2	1.6V
3	1.8V
4	2.1V
5	2.1V
6	2.1V
7	2.1V
8	0V
9	0V
10	0V
11	0V
12	0V
13	0V
14	0V
15	2.1V
16	2.1V
17	1.6V
18	4.9V
19	3.5V
20	1.6V
21	0V
22	0V
23	4.9V
24	4.9V
25	1.6V
26	2.1V
27	2.1V
28	1.9V
29	0V
30	0V
31	0V
32	0V
33	0V
34	0V
35	0V
36	4.2V
37	0V
38	2.1V
39	2.1V
40	4.9V
41	2.1V
42	2.1V

IC2	
PIN NO.	VOLTAGE
1	0.7V
2	0V
3	0V
4	0V
5	3.3V
6	2.4V
7	0V
8	0V
9	1.6V
10	0V
11	4.7V
12	1.7V
13	0V
14	1.6V
15	1.6V
16	1.6V
17	1.6V
18	3.3V
19	0V
20	1.6V
21	1.6V
22	1.6V
23	1.6V
24	1.6V
25	1.6V
26	1.6V
27	1.6V
28	0V
29	0V
30	2.1V
31	2.1V
32	0V
33	3.3V
34	3.5V
35	3.3V
36	3.3V
37	3.3V
38	1.6V
39	1.6V
40	0V
41	0V
42	3.3V
43	3.3V
44	3.0V
45	1.5V
46	0V
47	0V
48	1.5V
49	3.0V
50	3.3V
51	1.8V
52	3.0V
53	0V
54	0V
55	0V
56	0V
57	1.7V
58	3.3V
59	0V
60	3.0V
61	1.6V
62	0V
63	2.4V
64	0V
65	0V
66	0V
67	0V
68	4.8V
69	4.9V
70	4.9V
71	4.6V
72	0V
73	4.9V
74	0V
75	0V
76	0V
77	3.2V
78	0V
79	0V
80	3.4V

IC101	
PIN NO.	VOLTAGE
1	0V (0V)
2	0V (0V)
3	0.5V (0.5V)
4	1.9V (1.9V)
5	0V (0V)
6	0V (0V)
7	0V (0V)
8	0.6V (0.6V)
9	3.3V (3.3V)
10	3.3V (3.3V)
11	0V (0V)
12	0V (0V)
13	6.7V (6.7V)
14	4.0V (4.0V)
15	0V (0V)
16	3.3V (3.3V)
17	0.6V (0.6V)
18	0V (0V)
19	0V (0V)
20	0V (0V)
21	1.9V (1.9V)
22	0.5V (0.5V)
23	0V (0V)
24	0V (0V)

IC302	
PIN NO.	VOLTAGE
1	2.4V (2.4V)
2	0V (0V)
3	0V (0V)
4	0V (0V)
5	2.9V (2.9V)
6	4.8V (4.9V)
7	0.1V (9.9V)
8	4.2V (0V)
9	3.3V (0V)
10	0V (3.9V)
11	5.1V (5.1V)
12	2.2V (0V)
13	5.0V (5.0V)
14	0V (0V)
15	0V (2.4V)
16	2.3V (0V)
17	5.0V (5.0V)
18	0.6V (4.8V)
19	0.8V (1.8V)
20	2.0V (1.0V)
21	0V (0V)
22	2.5V (3.0V)

IC561	
PIN NO.	VOLTAGE
1	13.1V
2	13.1V
3	1.3V
4	0V
5	1.3V
6	13.1V
7	13.1V
8	18.3V

IC801	
PIN NO.	VOLTAGE
1	18.3V
2	0V
3	5.0V

Q823	
PIN NO.	VOLTAGE
1	16.6V
2	5.6V
3	0V

IC303	
PIN NO.	VOLTAGE
1	2.1V (2.1V)
2	4.5V (4.5V)
3	2.1V (2.1V)
4	2.1V (2.1V)
5	0V (0V)
6	4.6V (4.9V)
7	4.6V (4.9V)
8	2.4V (3.2V)
9	4.5V (4.8V)
10	3.9V (0V)
11	3.3V (1.8V)
12	3.3V (1.1V)
13	3.5V (2.0V)
14	1.2V (1.2V)
15	1.2V (1.2V)
16	2.0V (2.0V)
17	2.7V (0V)
18	2.1V (0.9V)
19	0V (1.9V)
20	0.3V (0.9V)
21	2.6V (2.0V)
22	2.6V (2.0V)
23	4.5V (4.8V)
24	3.0V (3.3V)

IC562	
PIN NO.	VOLTAGE
1	13.0V
2	13.0V
3	12.8V
4	0V
5	12.8V
6	13.0V
7	13.0V
8	18.3V

IC563	
PIN NO.	VOLTAGE
1	13.1V
2	13.1V
3	1.4V
4	0V
5	1.4V
6	13.1V
7	13.1V
8	18.3V

IC702	
PIN NO.	VOLTAGE
1	0V
2	0V
3	0V
4	0V
5	0.3V
6	8.4V
7	0.3V
8	0.3V
9	0V
10	0V
11	0V
12	0V
13	0V
14	4.1V
15	0V
16	0.1V
17	0V
18	4.9V

IC701			
PIN NO.	VOLTAGE	PIN NO.	VOLTAGE
1	4.6V	51	4.9V
2	4.6V	52	0V
3	4.6V	53	0V
4	0V	54	4.9V
5	0V	55	4.9V
6	0V	56	4.9V
7	4.6V	57	4.9V
8	0V	58	0V
9	4.9V	59	–34.3V
10	4.7V	60	–20.1V
11	4.9V	61	–16.4V
12	2.6V	62	–12.2V
13	0V	63	–16.5V
14	0V	64	–14.2V
15	4.8V	65	–31.9V
16	4.6V	66	–29.7V
17	4.6V	67	–31.9V
18	0V	68	–29.7V
19	4.9V	69	–18.5V
20	0V	70	–29.7V
21	0V	71	–27.5V
22	0V	72	–29.8V
23	0V	73	–18.8V
24	4.8V	74	–18.8V
25	0V	75	–27.7V
26	0V	76	–23.4V
27	0V	77	–23.1V
28	0V	78	–20.9V
29	0V	79	–34.1V
30	0V	80	–18.9V
31	4.9V	81	–28.7V
32	5.0V	82	–26.0V
33	4.9V	83	29.8V
34	4.6V	84	–27.6V
35	5.0V	85	–29.7V
36	4.9V	86	–20.6V
37	4.9V	87	–20.5V
38	0V	88	–31.9V
39	4.8V	89	–31.8V
40	0V	90	–31.8V
41	1.9V	91	–32.0V
42	9.1V	92	–31.9V
43	9.1V	93	–31.9V
44	0V	94	–31.9V
45	3.8V	95	–31.9V
46	4.6V	96	–31.9V
47	4.5V	97	–31.9V
48	4.5V	98	–31.9V
49	4.9V	99	–31.9V
50	3.0V	100	–31.9V

ICT21	
PIN NO.	VOLTAGE
1	2.6V(2.6V)
2	2.6V (2.6V)
3	5.2V (5.2V)
4	0V (0V)
5	2.6V (2.6V)
6	2.6V (2.6V)
7	0V (0V)
8	0V (0V)
9	0V (0V)
10	0V (0V)
11	0V (0V)
12	2.6V (2.6V)
13	2.5V (2.5V)
14	5.2V (5.2V)
15	0V (0V)
16	0V (0V)
17	0V (0V)
18	0V (0V)
19	0V (0V)
20	0V (0V)
21	2.9V (0V)
22	0V (0V)
23	0V (0V)
24	0V (0V)

IC802	
PIN NO.	VOLTAGE
1	18.7V
2	0V
3	10V

IC703	
PIN NO.	VOLTAGE
1	5.0V
2	0V
3	5.0V

IC901	
PIN NO.	VOLTAGE
1	–0.1V
2	0.1V
3	0V
4	40.2V
5	–38.5V
6	0V
7	0V
8	41.4V
9	–41.4V
10	0V
11	0V
12	–32.4V
13	0V
14	–0.1V
15	–0.1V

IC902	
PIN NO.	VOLTAGE
1	–0.1V
2	0.1V
3	0V
4	32.8V
5	–31.3V
6	0V
7	0V
8	33.9V
9	33.9V
10	0V
11	0V
12	–32.4V
13	0V
14	–0.1V
15	–0.1V

IC903	
PIN NO.	VOLTAGE
1	0V
2	0V
3	0V
4	12.1V
5	0V
6	0V
7	0V
8	8.6V

TROUBLE SHOOTING

When the CD does not function

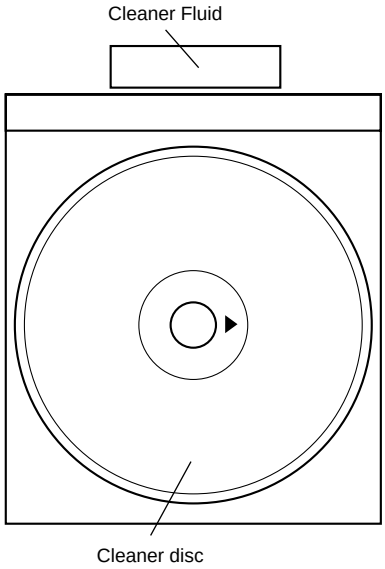
When the CD section does not operate when the objective lens of the optical pickup is dirty, this section may not operate. Clean the objective lens, and check the playback operation. When this section does not operate even after the above step is taken, check the following items.
Remove the cabinet and follow the trouble shooting instructions.
"Track skipping and/or no TOC (Table Of Contents) may be caused by build up of dust other foreign matter on the laser pickup lens. Before attempting any adjustment make certain that the lens is clean. If not, clean it as mentioned below."

Turn the power off.
Gently clean the lens with a lens cleaning tissue and a small amount of isopropyl alcohol.
Do not touch the lens with the bare hand.

		Parts code
1.	CD optical pickup Lens cleaner disc	UDSKA0004AFZZ

HOW TO USE

1. Using the brush in the cleaner cap, apply 1 or 2 drops of the cleaning fluid to the brush on the CD cleaner disc which has the mark next to it.
2. Place the CD cleaner disc onto the CD disc tray with the brush side down, then press the play button.
3. You will hear music for about 20 seconds and the CD player will automatically stop. If it continuous to turn, press the stop button.



CAUTION

- The CD lens cleaner should be effective for 30-50 operations, however if the brushes become worn out earlier then please the cleaner disc.
- If the CD cleaner brushes become very wet then wipe off any excess fluid with a soft cloth.
- Do not drink the cleaner fluid or allow it to come in contact with the eyes. In the event of this happening then drink and / or rinse with clean water and seek medical advice.
- The CD cleaner disk must not be used on car CD players or on computer CD ROM drives.
-

When a CD cannot be played

1. "E-CD01" is displayed.

(1) Check the power to IC2 (LC78641E), the presence of the clock signal (16.93 MHz) and the status of the RESET terminal (pin 71 on IC2).
(2) Did the pickup move to the PICKUP-IN Switch (SW4) position?

If (1) and (2) are OK, check the system microcomputer (especially the communication line with the DSP).

2. Pressing the CD operation key is accepted, but playback does not occur.

(1) Focus-HF system check
(2) Tracking system check
(3) Spin system check
(4) PLL system check
(5) Others

(1) Focus-HF system check

Although a CD is inserted and the cover is closed, "NO DISC" is displayed.

Press the OPEN/CLOSE switch (SW1) without inserting a disc, and try starting the playback operation.

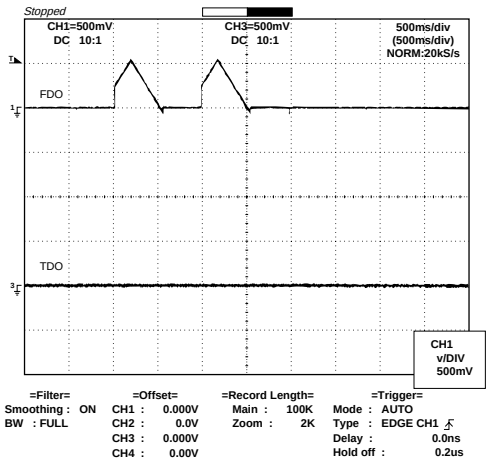


Figure 45-1

1. Did the pickup move to the PICKUP-IN Switch (SW4) position?
   - No → Sled motor (M2)
   - Yes ↓
2. Does the focus (lens) move up and down? (Waveform drawing 45-1).
   - No → Check the focus peripheral circuit.
   - Yes ↓
3. Is the laser lit?
   - No → Check the laser diode driver Q3 peripheral circuit.
   - Yes ↓
4. Is the turntable rotating?
   - No → Spindle motor (M1).

When a disc is loaded, start playback operation.

1. Is focus servo activated? (Waveform drawing 45-2)
   - No → Pins 1~11 on IC1
     Check the laser diode driver Q3 peripheral circuit.
     Focus error circuit (pins 20 and 21 on IC1)
   - Yes ↓
2. Does DRF change from "L" to "H"?
   - No → Is the disc rotating?
     - No → Check the spin system.
       If the disc is spinning and a HF waveform is generated, DRF will go H.
   - Yes ↓
3. Is the HF waveform normal? (Waveform drawing 45-3)
   - No → If the level is not normal, check around pins 27~29 on IC1.

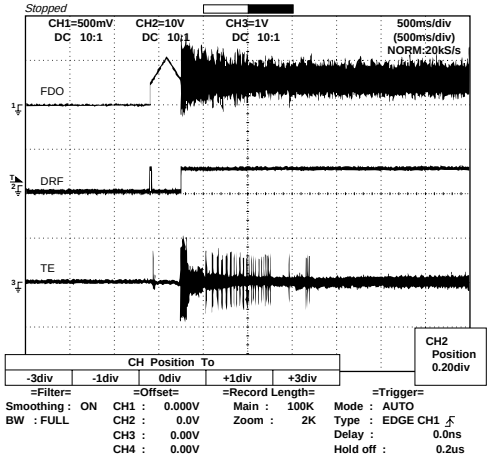


Figure 45-2

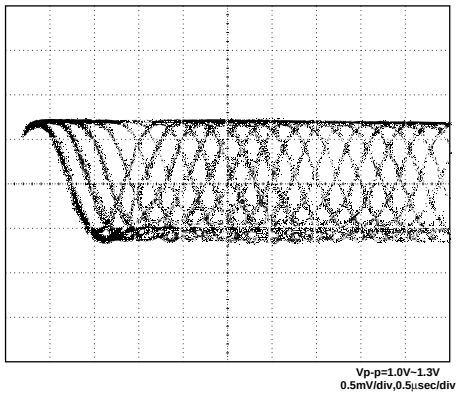


Figure 45-3

(2) Tracking system check

Check the TE waveform at pin 18 on IC1.

If the waveform shown in Figure 46-1 appears and soon after NO DISC appears.
- Yes → The tracking servo is not activated. Check the peripheral circuits at pins 18 and 19 on IC1, pin 23 on IC2, and CNS1A/B.
- No ↓

"Initialization" is possible, but play is not possible.
- Yes → A normal jump operation cannot be completed or the beginning of the track cannot be found. Check the around pin 23 on IC2.
- No ↓

"Initialization" is not possible.
- → Data cannot be read. Check the VCO-PLL system.

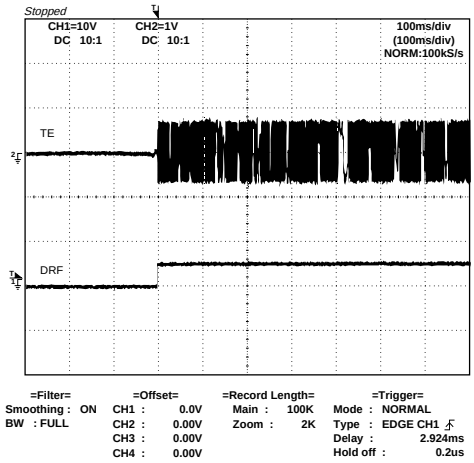


Figure 46-1

(3) Spin system check

Press the OPEN/CLOSE switch without inserting a disc, and then try starting the play operation.

1. The turntable rotates a little. (Waveform drawing 46-2)
- Yes → The spin driver circuit is OK.
- No ↓

2. The turntable doesn't rotate.
- → Check around pin 25 on IC2, pins 15 and 16 on IC3, and CNS3A/B.

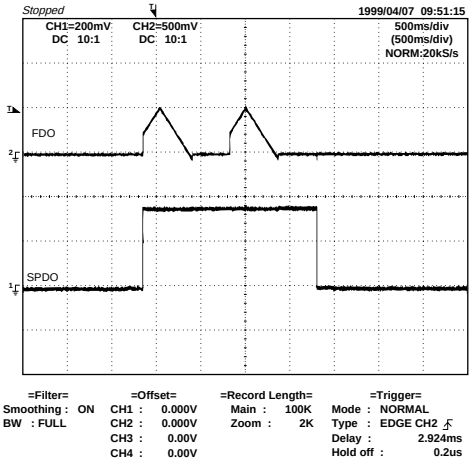


Figure 46-2

(4) PLL system check

When a disc is loaded, start play operation.

↓

The HF waveform is normal, but the TOC data cannot be read.

↓

Check the PDO waveform. (Figure 47-1)

↓

Check around pins 1~6 on IC2.

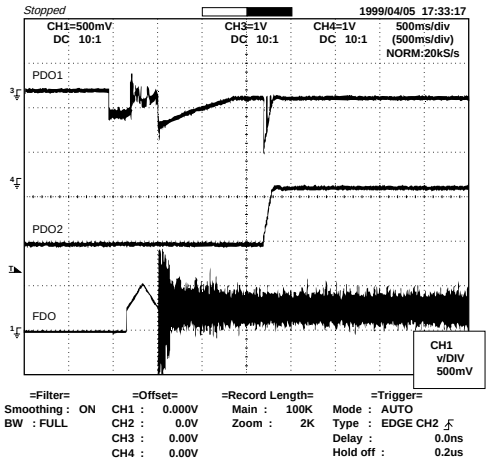


Figure 47-1

(5) Others

The HF waveform is normal and the time is displayed normally, but no sound is produced. Or the sound has dropouts.

Is pin 35 (C2F) on IC2 "L"? — No → There are too many error flags on a damaged disc which makes error correction impossible.

↓ Yes

1. When playing at normal speed
   Check the peripheral circuit at pin 37 (DOUT) on IC2 and the waveform (Figure 47-2).

↓

If both 1. and 2. are OK.

↓

Check again using a known good disc.

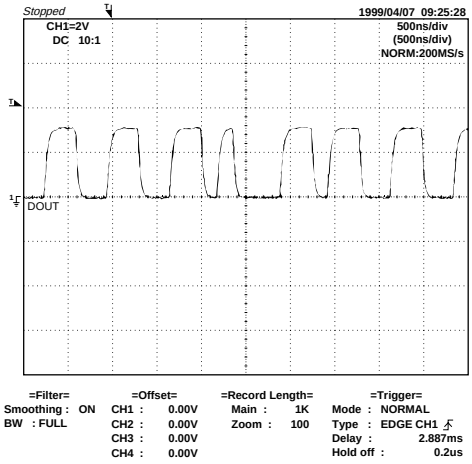
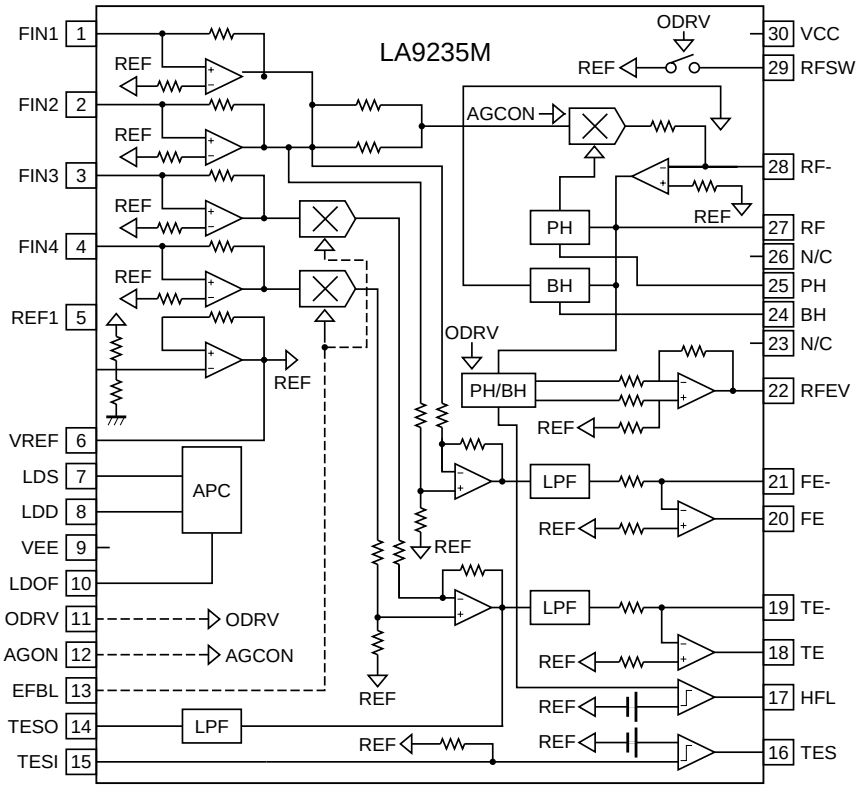


Figure 47-2

FUNCTION TABLE OF IC

IC1 VHiLA9235M/-1: Servo Amp. (LA9235M)



IC2 VHiLC78641E-1: Servo/Signal Control (LC78641E)

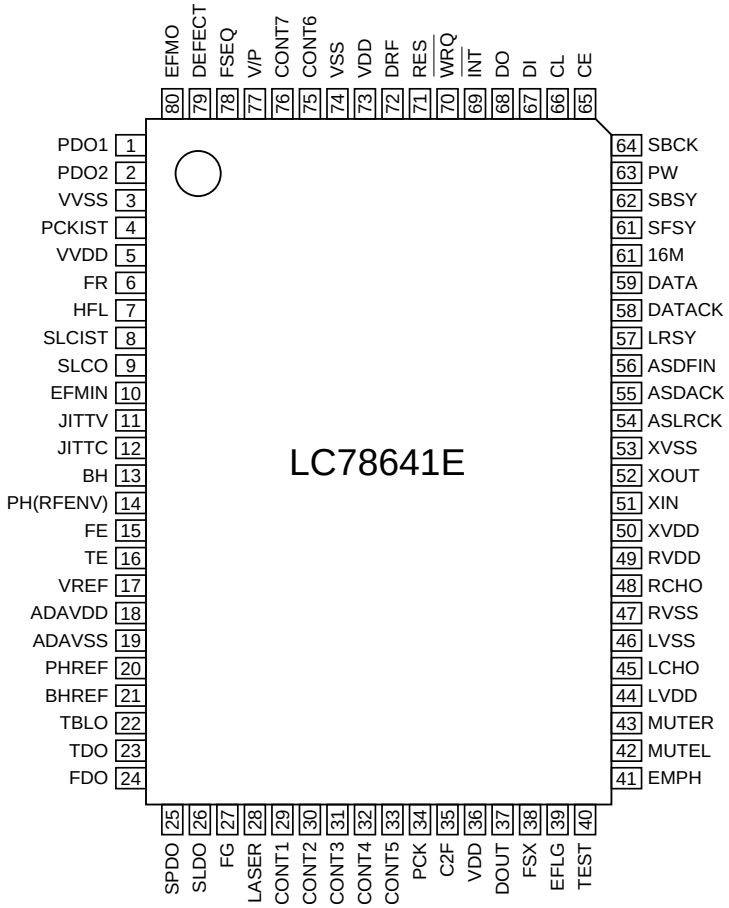


Figure 48 BLOCK DIAGRAM OF IC

IC2 VHiLC78641E-1: Servo/Signal Control (LC78641E) (1/2)

Pin No.	Terminal Name	Input/Output	Setting in Reset	Function		
1	PDO1	Output	–	For PULL	Phase-comparison output terminal for built-in VOC control.	
2	PDO2	Output	–		Phase-comparison output terminal for built-in VOC control. Rough servo : OFF, phase servo : ON.	
3	VVSS	–	–		Ground terminal for built-in VCO.	
4	PCKIST	AI	–		Resistor terminal for setting the PDO output current.	
5	VVDD	–	–		Power terminal for built-in VCO.	
6	FR	AI	–		Resistor terminal for setting the VCO frequency range.	
7	HFL	Input	–	Mirror detection signal input terminal.		
8	SLCIST	AI	–	For slice level control	Resistance connection terminal for current adjustment of SLCO output.	
9	SLCO	Output	–		Control output.	
10	EFMIN	Input	–		EFM signal input terminal.	
11*	JITTV	Output	Unfixed	Jitter detection/monitor terminal.		
12	JITTC	Output	–	Jitter detection/adjustment terminal.		
13	BH	Input	–	BH signal input terminal. A/D input.		
14	PH(RFENV)	Input	–	PH signal or RFENV signal input terminal. A/D input.		
15	FE	Input	–	FE signal input terminal. A/D input.		
16	TE	Input	–	TE signal input terminal. A/D input.		
17	VREF	Input	–	VREF signal input terminal. A/D input.		
18	ADAVDD	–	–	AD for servo, D/A power terminal.		
19	ADAVSS	–	–	AD for servo, D/A ground terminal.		
20*	PHREF	Output	(1/2VDD)	PH reference output terminal. D/A output.		
21*	BHREF	Output	(1/2VDD)	BH reference output terminal. D/A output.		
22	TBLO	Output	(1/2VDD)	Output terminal for tracking balance. D/A output.		
23	TDO	Output	(1/2VDD)	Output terminal for tracking control. D/A output.		
24	FDO	Output	(1/2VDD)	Output terminal for focus control. D/A output.		
25	SPDO	Output	(1/2VDD)	Output terminal for spindle control. D/A output.		
26	SLDO	Output	(1/2VDD)	Output terminal for sled control. D/A output.		
27*	FG	Input	–	FG signal input terminal. (When not used, connect to 0V)		
28	LASER	Output	L	LASER ON/OFF control terminal.		
29	CONT1	In/Output	Input mode	General purpose input/output terminal 1.		Controlled with serial data command from microcomputer. When not used, set it as the input terminal and open it by connecting to 0V, or set it as the output terminal and open it.
30	CONT2	In/Output	Input mode	General purpose input/output terminal 2.		
31	CONT3	In/Output	Input mode	General purpose input/output terminal 3.		
32	CONT4	In/Output	Input mode	General purpose input/output terminal 4.		
33	CONT5	In/Output	Input mode	General purpose input/output terminal 5.		
34*	PCK	Output	H	Clock monitor terminal for EFM data replay. 4.3218 MHz as phase clock.		
35*	C2F	Output	H	C2 flag output terminal.		
36	VDD	–	–	Power terminal of digital system.		
37*	DOUT	Output	L	Output terminal of digital OUT. (EIAJ format)		
38*	FSX	Output	L	Output terminal of synchronous signal of 7.35 kHz divided from quartz oscillation.		
39*	EFLG	Output	L	C1,C2 correct monitor terminal.		
40	TEST	Input	–	Input terminal for test. Surely connected to 0V.		
41*	EMPH	In/Output	Input mode	Emphasis terminal. After resetting, it is configured as an input terminal. It can be controlled from the outside. It is also becomes a emphasis monitor terminal under command control.		
42*	MUTEL	Output	H	Mute output terminal for L channel.		
43*	MUTER	Output	H	Mute output terminal for R channel.		

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

IC2 VHiLC78641E-1: Servo/Signal Control (LC78641E) (2/2)

Pin No.	Terminal Name	Input/Output	Setting in Reset	Function	
44	LVDD	–	–	L channel D/A converter	Power terminal for L channel.
45	LCHO	Output	1/2VDD		L channel output terminal.
46	LVSS	–	–		Ground terminal for L channel. Surely connected to 0V.
47	RVSS	–	–	R channel D/A converter	Ground terminal for R channel. Surely connected to 0V.
48	RCHO	Output	1/2VDD		R channel output terminal.
49	RVDD	–	–		Power terminal for R channel.
50	XVDD	–	–	For quartz oscillation	Power terminal for quartz oscillation.
51	XIN	Input	Oscillation		Ground terminal of 16.9344 MHz quartz oscillation.
52	XOUT	Output	Oscillation		
53	XVSS	–	–		Ground terminal for quartz oscillation. Surely connected to 0V.
54	ASLRCK	Input	–	For anti shock mode	L/R clock input terminal. (When not used, connect to 0V)
55	ASDACK	Input	–		Bit clock input terminal. (When not used, connect to 0V)
56	ASDFIN	Input	–		L/R channel data input terminal. (When not used, connect to 0V)
57*	LRSY	Output	L	For digital data output	L/R clock output terminal.
58*	DATACK	Output	L		Bit clock output terminal.
59*	DATA	Output	L		L/R channel data output terminal.
60*	16M	Output	Clock output	16.9344 MHz output terminal.	
61*	SFSY	Output	L	Output terminal of synchronous signal of subcode frame. It drops when subcode stand by.	
62*	SBSY	Output	L	Output terminal of synchronous signal of subcode block.	
63*	PW	Output	L	Output terminal of subcodes P,A,R,S,T,U and W.	
64	SBCK	Input	–	Clock input terminal to read subcode. (When not used, connect to 0V)	
65	CE	Input	–	For microcomputer interface	Chip enable signal input terminal.
66	CL	Input	–		Data transmission clock input terminal.
67	DI	Input	–		Data input terminal.
68	DO	Output	L		Data output terminal.
69	INT	Output	H		Interruption signal output terminal.
70	WRQ	Output	H		Interruption signal output terminal.
71	RES	Input	–	Reset input terminal of LC78640. When turning on power, set it at "L".	
72	DRF	Output	L	Focus ON detection terminal.	
73	VDD5V	–	–	Power terminal for microcomputer interface.	
74	VSS	–	–	Ground terminal of digital system. Surely connected to 0V.	
75	CONT6	In/Output	Input mode	General purpose input/output terminal 6.	Controlled with serial data command from microcomputer. When not used, set it as the input terminal and open it by connecting to 0V, or set it as the output terminal and open it.
76	CONT7	In/Output	Input mode	General purpose input/output terminal 7.	
77*	V/ *P	Output	H	Monitor output terminal for automatic switch of rough servo/phase control. "H" for rough servo, and "L" for phase servo.	
78*	FSEQ	Output	L	Output terminal synchronous signal detection. "H" is output when synchronous signal detected by EFM signal matches synchronous signal internally generated.	
79*	DEFECT	In/Output	Input mode	Defect terminal. After resetting, it is configured as an input terminal. It can be controlled from the outside. It also becomes a defect monitor terminal under command control	
80*	EFMO	Output	Unfixed	EFM signal output terminal.	

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

Be sure to supply the same potential to each power terminal. (VVDD,ADAVDD,VDD,LVDD,RVDD,XVDD)
Terminal witch is controlled by the power terminal (VDD5V) for a microcomputer interface :
CE (65pin), CL (66pin), DI (67pin), DO (68pin), INT (69pin), WRQ (70pin), RES (71pin), DRF (72pin),
CONT6 (75pin), CONT7 (76pin)

IC701 RH-iX0333AWZZ: System Microcomputer (IX0333AW) (1/2)

Pin No.	Port Name	Terminal Name	Input/Output	Function
1	VDD	VDD	—	(+) POWER SUPPLY
2	P37	-20dBATT	Output	-20dB ATTENUATOR
3*	P36	S-BUSY	Output	Not used
4*	P35	LCK1	Output	LED DRIVER LCK (BU2092-2)
5	P34	LCK0	Output	LED DRIVER LCK (BU2092-1)
6*	P33	DP REQ	Output	DOLBY PROLOGIC REQ TERMINAL
7	P32	RES OUT	Output	CD DSP RESET&MPEG MICROCOMPUTER RESET
8	P31	DRF	Input	CD RF LEVEL DETECTION
9	P30	WRQ	Input	CD DSP WRITE REQUEST
10	RESET	RESET	Input	MICROCOMPUTER RESET
11	X2	X2	Output	MAIN CLOCK
12	X1	X1	Input	MAIN CLOCK
13	VPP/IC	VPP/IC	—	GND
14*	XT2	XT2	—	OPEN
15	P04	CD INT	Input	CD DSP INTERRUPT
16	VDD	VDD	—	(+) POWER SUPPLY
17	P27	CD CLK/MCLK	Output	CD DSP CLOCK/MPEG MICROCOMPUTER CLOCK
18	P26	CD DI/MDI	Output	CD DSP COMMAND/MPEG MICROCOMPUTER COMMAND
19	P25	CD DO/MDO	Input	CD DSP CODE Q OUT/MPEG MICROCOMPUTER DATA INPUT
20	P24	CD CE	Output	CD DSP CE OUTPUT
21	P23	CE	Output	CE OUTPUT
22	P22	CLK	Output	CLOCK OUTPUT
23	P21	DI	Output	DATA OUTPUT
24	P20	DO	Input	DATA INPUT
25	AVSS	AVSS	—	ANALOG GROUND
26	ANI7	TUN SM/M-BUSY	Input	TUNER SIGNAL METER INPUT
27	ANI6	SPEANA3	Input	SPEANA DATA INPUT L, R 16 kHz
28	ANI5	SPEANA2	Input	SPEANA DATA INPUT L, R 63 Hz
29	ANI4	SPEANA1	Input	SPEANA DATA INPUT R-CH 1 kHz
30	ANI3	SPEANA0	Input	SPEANA DATA INPUT L-CH 1 kHz
31-33	ANI2-ANI0	KEY2-KEY0	Input	KEY INPUT
34	AVDD	AVDD	—	ANALOG VDD
35	AVREF	AVREF	—	ANALOG REF VOLTAGE
36	INTP3	SYS STOP	Input	SYSTEM STOP INPUT
37	INTP2	JOG1	Input	KEY JOG INPUT 1
38	INTP1	JOG0	Input	KEY JOG INPUT 2
39	INTP0	REMOCON	Input	REMOCON INPUT
40	VSS	VSS	—	GROUND VOLTAGE
41	P74	SMUTE	Output	SYSTEM MUTE CONTROL
42	P73	T_SOL 2	Output	TAPE 2 SOLENOID CONTROL
43	P72	T_SOL 1	Output	TAPE 1 SOLENOID CONTROL
44	P71	T_MOTOR	Output	TAPE MOTOR CONTROL
45	P70	TIMER LED	Output	TIMER LED CONTROL
46	VDD	VDD	—	(+) POWER SUPPLY
47	P127	AC RLY_CONT	Output	AC RELAY CONTROL
48	P126	SP RLY	Output	SPEAKER OUTPUT RELAY CONTROL
49	P125	SP DET	Input	SPEAKER OUTPUT DETECTION
50	P124	T1 RUN	Input	TAPE 1 RUN PULSE INPUT
51	P123	T2 RUN	Input	TAPE 2 RUN PULSE INPUT
52	P122	CD CLAMP SW	Input	CD CHANGER CLAMP SWITCH
53	P121	T1 PLAY SW_A	Input	PLAY SWITCH FOR T1
54	P120	T2 PLAY SW_B	Input	PLAY SWITCH FOR T2

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

IC701 RH-iX0333AWZZ: System Microcomputer (IX0333AW) (2/2)

Pin No.	Port Name	Terminal Name	Input/Output	Function
55	P119	FPA	Input	TAPE 2 A-SIDE FULL PROOF
56	P118	FPB	Input	TAPE 2 B-SIDE FULL PROOF
57*	P117	MIC IN	Input	MIC SWITCH
58*	P116	KARAOKE LATCH/SPN A	Output	KARAOKE LATCH (When used. Connect to 0V)
59*	P115	DIST_OUT/SW OUT	Output	DISTINATION OUTPUT/SWITCH OUTPUT
60	P112	SPN B	Input	TUNER SPAN CHANGE
	FIP39	P25	Output	FL DISPLAY SEGMENT DRIVER
61	P111	MOV VOL CONT OPN SW	Input	MOVING VOLUME CONTROL OPEN SWITCH
	FIP38	P24	Output	FL DISPLAY SEGMENT DRIVER
62	P110	MOV VOL CONT CLS SW	Input	MOVING VOLUME CONTROL CLOSE SWITCH
	FIP37	P23	Output	FL DISPLAY SEGMENT DRIVER
63-66	FIP36-FIP33	P22-P19	Output	FL DISPLAY SEGMENT DRIVER
67	P103	DIST3	Input	DISTINATION INPUT
	FIP32	P18	Output	FL DISPLAY SEGMENT DRIVER
68	P102	DIST2	Input	DISTINATION INPUT
	FIP31	P17	Output	FL DISPLAY SEGMENT DRIVER
69	P101	DIST1	Input	DISTINATION INPUT
	FIP30	P16	Output	FL DISPLAY SEGMENT DRIVER
70	P100	DIST0	Input	DISTINATION INPUT
	FIP29	P15	Output	FL DISPLAY SEGMENT DRIVER
71-78	FIP28-FIP21	P14-P7	Output	FL DISPLAY SEGMENT DRIVER
79	VLOAD	VLOAD	—	FL DRIVER (-) POWER SUPP. -30V
80-85	FIP20-FIP15	P6-P1	Output	FL DISPLAY SEGMENT DRIVER
86-100	FIP14-FIP0	G15-G1	Output	FL DISPLAY SEGMENT DRIVER

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

IC3 VHiM63001FP-1: Focus/Tracking/Spin/Sled Driver (M63001FP)

Pin No.	Terminal Name	Function
1	IN2-	CH2 inverted input.
2	IN1A-	CH1 inverted input.
3*	IN1B-	CH1 output offset control.
4	OUT1-	CH1 inverted output.
5	OUT1+	CH1 non-inverted output.
6	OUT2-	CH2 inverted output.
7	OUT2+	CH2 non-inverted output.
8-14	GND	GND
15	OUT3+	CH3 non-inverted output.
16	OUT3-	CH3 inverted output.
17	IN3-	CH3 inverted input.
18	VCC1	Power supply 1 (CH1, CH2, CH3)
19	STANDBY	STANDBY signal input.
20	VRFE	CH1-CH4 Reference voltage input.
21	MUTE	Mute signal input (CH6).
22	IN5-	CH5 inverted input.
23	IN5+	CH5 non-inverted input.
24	VCC2	Power supply 2 (CH4).
25	IN4-	CH4 inverted input.
26	OUT4-	CH4 inverted output.
27	OUT4+	CH4 non-inverted output.
28	VCC3	Power supply 3 (CH5).
29-35	GND	GND
36*	OUT5+	CH5 non-inverted output.
37*	OUT5-	CH5 inverted output.
38	OUT6+	CH6 non-inverted output.
39	OUT6-	CH6 inverted output.
40	VCC4	Power supply 4 (CH6).
41	IN6-	CH6 inverted input.
42	IN6+	CH6 non-inverted input.

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

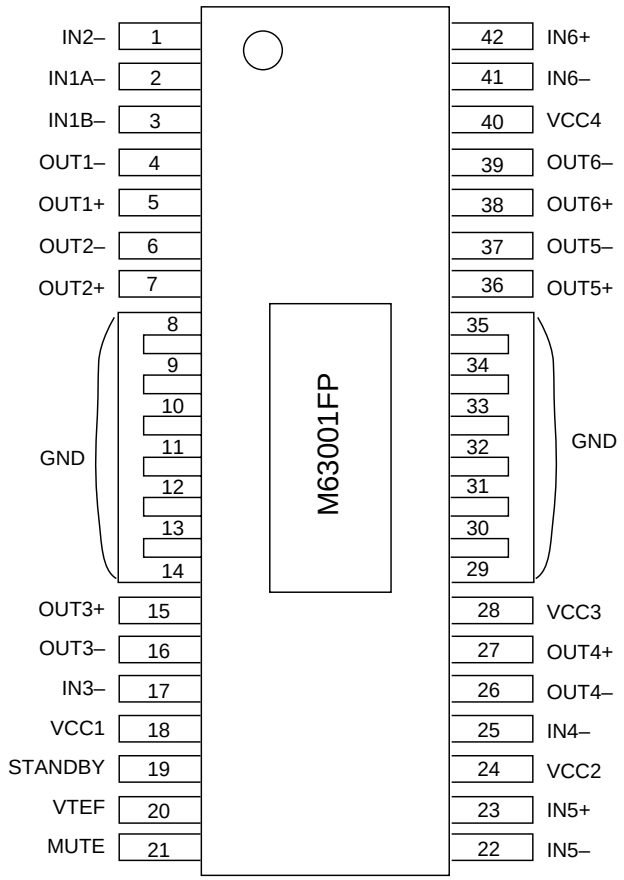
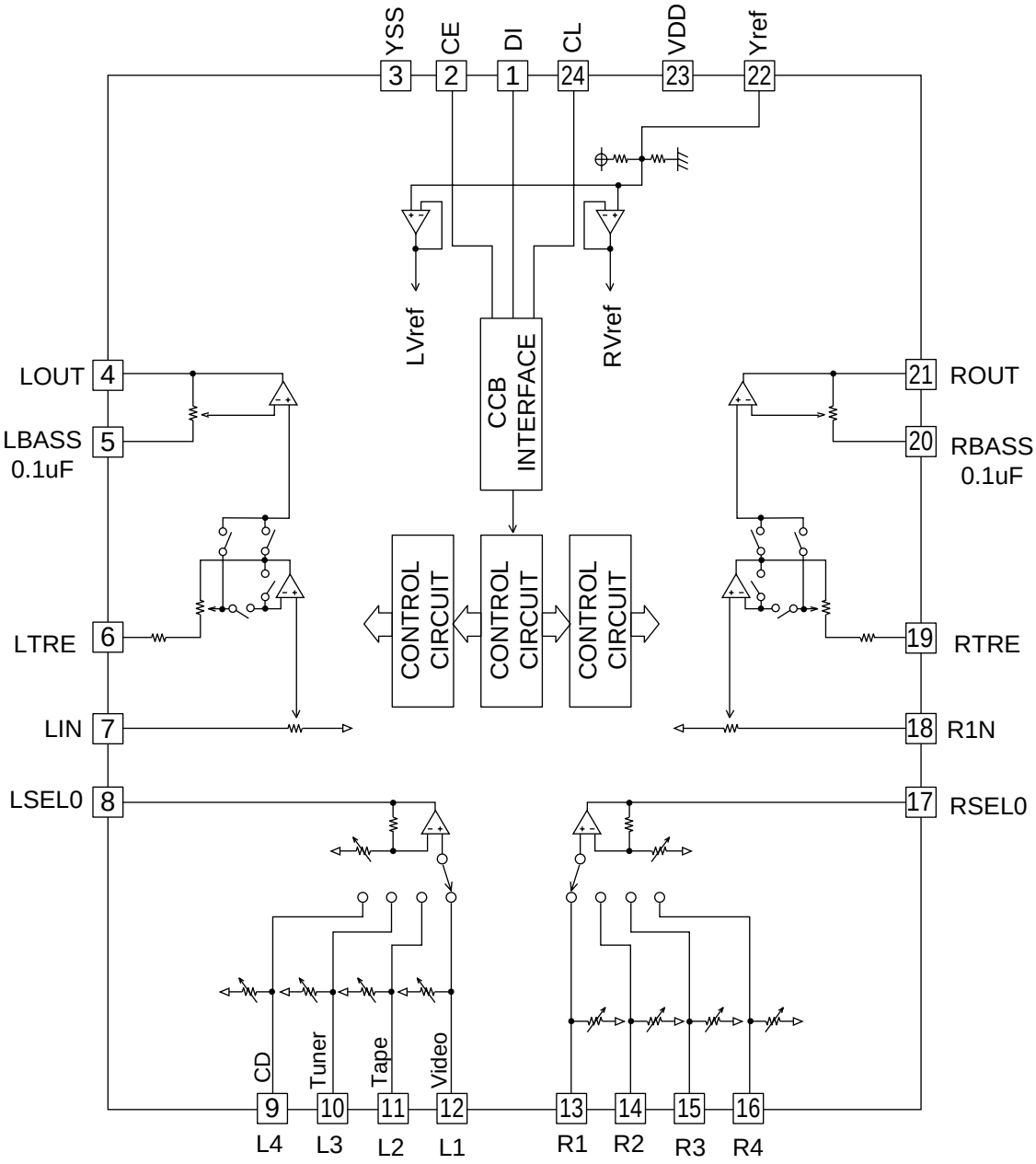


Figure 52 BLOCK DIAGRAM OF IC

IC601 VHiLC75341/-1: Audio Processor (LC75341)



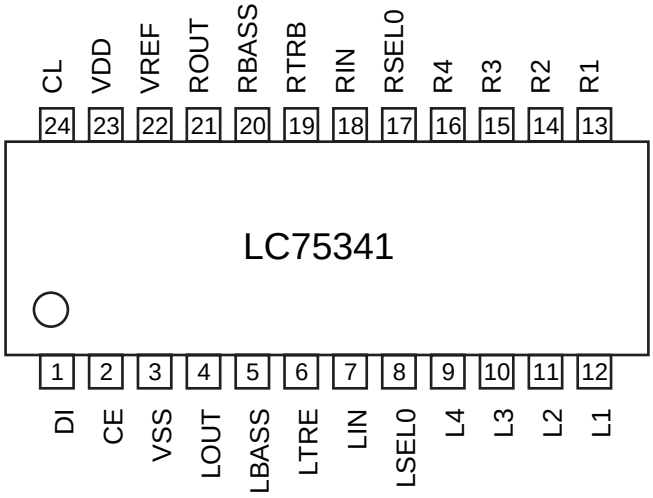
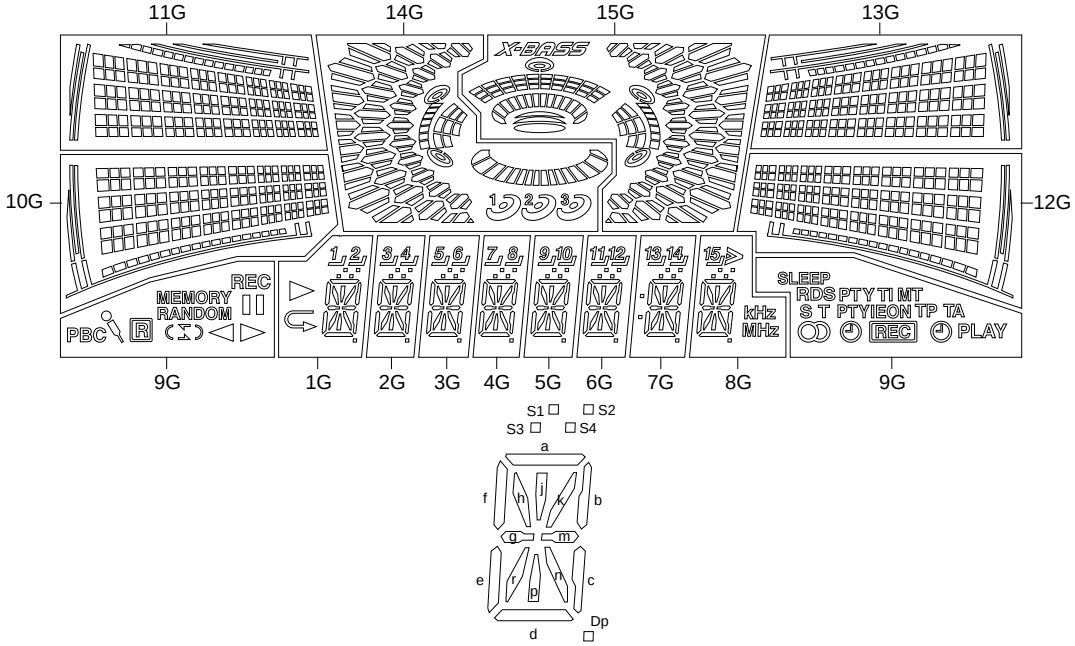


Figure 53 BLOCK DIAGRAM OF IC

FL701 VVKBJ744GNK-1: FL Display



(1G~8G)

PIN CONNECTION

PIN NO.	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
CONNECTION	15G	14G	13G	12G	11G	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G	NP	NP	F1	F1	F1

PIN NO.	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21
CONNECTION	P12	P11	P10	P9	P8	P7	P6	P5	P4	P3	P2	P1	NX	NX	NX	NX	NX	NX	NX	NX

PIN NO.	58	57	56	55	54	53	52	51	50	49	48	47	46	45	44	43	42	41
CONNECTION	F2	F2	F2	NP	NP	P25	P24	P23	P22	P21	P20	P19	P18	P17	P16	P15	P14	P13

Figure 54-1 FL DISPLAY

WIRING OF PRIMARILY SUPPLY LEADS (FOR U.K. ONLY)

If any one of the bands shown in Fig. 54-2 is removed some reason, be sure replace it to the original position and same appearance as before.

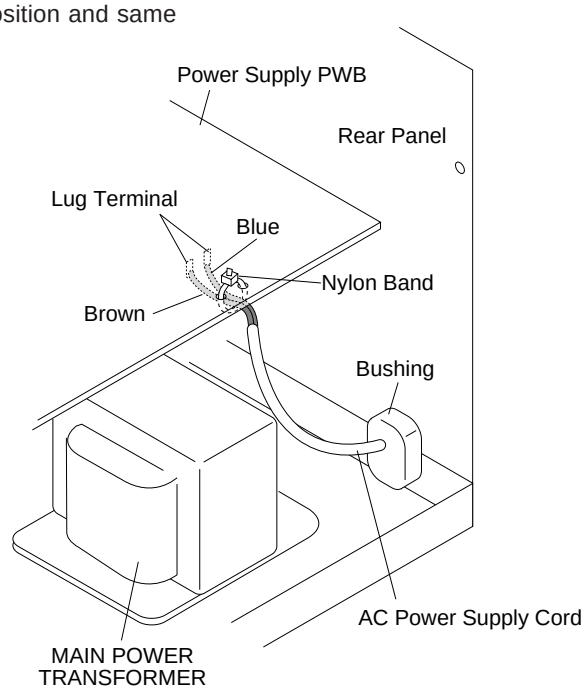


Figure 54-2

SHARP PARTS GUIDE

MODEL CD-BA2010H

CD-BA2010H Mini Component System consisting of CD-BA2010H (main unit) and CP-BA2010H (speaker system).

"HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following information.

1. MODEL NUMBER
2. REF. No.
3. PART NO.
4. DESCRIPTION

★ MARK: SPARE PARTS-DELIVERY SECTION

For U.S.A. only

Contact your nearest SHARP Parts Distributor to order.

For location of SHARP Parts Distributor,
Please call Toll-Free;
1-800-BE-SHARP

Explanation of capacitors/resistors parts codes

Capacitors

VCC ..... Ceramic type
VCK..... Ceramic type
VCT ..... Semiconductor type
VC • • MF ..... Cylindrical type (without lead wire)
VC • • MN..... Cylindrical type (without lead wire)
VC • • TV..... Square type (without lead wire)
VC • • TQ ..... Square type (without lead wire)
VC • • CY ..... Square type (without lead wire)
VC • • CZ ..... Square type (without lead wire)
VC • • • • • • • • • J .. The 13th character represents capacity difference.
("J" ±5%, "K" ±10%, "M" ±20%, "N" ±30%,
"C" ±0.25 pF, "D" ±0.5 pF, "Z" +80-20%.)

If there are no indications for the electrolytic capacitors, error is ±20%.

Resistors

VRD ..... Carbon-film type
VRS..... Carbon-film type
VRN ..... Metal-film type
VR • • MF ..... Cylindrical type (without lead wire)
VR • • MN..... Cylindrical type (without lead wire)
VR • • TV..... Square type (without lead wire)
VR • • TQ ..... Square type (without lead wire)
VR • • CY ..... Square type (without lead wire)
VR • • CZ ..... Square type (without lead wire)
VR • • • • • • • • • J .. The 13th character represents error.
("J" ±5%, "F" ±1%, "D" ±0.5%.)

If there are no indications for other parts, the resistors are ±5% carbon-film type.

NOTE:
Parts marked with "⚠" are important for maintaining the safety of the set.
Be sure to replace parts with specified ones for maintaining the safety and performance of the set.

CD-BA2010H

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION

CD-BA2010H

INTEGRATED CIRCUITS

IC1	VHILA9235M/-1	J	AQ	Servo Amp.,LA9235M
IC2	VHILC78641E-1	J	AV	Servo/Signal Control,LC78641E
IC3	VHIM63001FP-1	J	AX	Focus/Tracking/Spin/Sled Driver, M63001FP
IC101	VHIAN7345K/-1	J	AM	Playback and Record/Playback Amp.,AN7345K
IC302	VHILC72131/-1	J	AP	PLL (Tuner),LC72131
IC303	VHILA1832S/-1	J	AN	FM IF Det./FM Mpx./AM IF, LA1832S
IC561~563	VHIKIA4558P-1	J	AC	Ope Amp.,KIA4558P
IC601	VHILC75341/-1	J	AM	Audio Processor,LC75341
IC701	RH-IX0333AWZZ	J	AX	System Microcomputer, IX0333AW
IC702	VHIBU2092F/-1	J	AM	Input/Output Expander,BU2092F
IC703	VHIKIA7042AP1	J	AC	Reset,KIA7042AP
IC801	VHIKIA7805P-1	J	AF	Voltage Regulator,KIA7805P
IC802	VHIKIA7810AP1	J	AF	Voltage Regulator,KIA7810AP
IC901	VHISTK40271-1	J	AZ	Power AMP.,STK40271
IC902	VHISTK40204-1	J	AX	Power AMP.,STK40204
IC903	VHIKIA4558P-1	J	AC	Ope Amp.,KIA4558P
ICT21	VHILC72722/-1	J	AY	RDS Decorder,LC72722

TRANSISTORS

Q1	VSKTC3203Y/-1	J	AC	Silicon,NPN,KTC3203 Y
Q2	VSKRC102M//-1	J	AC	Digital,NPN,KRC102 M
Q3	VSKTA1266GR-1	J	AB	Silicon,PNP,KTA1266 GR
Q103~106	VS2SC1845F/-1	J	AC	Silicon,NPN,2SC1845 F
Q107,108	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q109	VSKTA1266GR-1	J	AB	Silicon,PNP,KTA1266 GR
Q110,111	VSKRC104M//-1	J	AC	Digital,NPN,KRC104 M
Q121,122	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q124	VS2SA1015GR-1	J	AB	Silicon,PNP,2SA1015 GR
Q126	VSKRC104M//-1	J	AC	Digital,NPN,KRC104 M
Q128	VSKTC3203Y/-1	J	AC	Silicon,NPN,KTC3203 Y
Q301	VS2SC380-O/-1	J	AC	Silicon,NPN,2SC380 O
Q360	VSKTA1266GR-1	J	AB	Silicon,PNP,KTA1266 GR
Q603~606	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q701~703	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q704,705	VSKTA1271Y/-1	J	AC	Silicon,PNP,KTA1271 Y
Q706,707	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q708	VSKTA1273Y/-1	J	AE	Silicon,PNP,KTA1273 Y
Q709	VSKRC102M//-1	J	AC	Digital,NPN,KRC102 M
Q710~712	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q713~716	VSKTA1271Y/-1	J	AC	Silicon,PNP,KTA1271 Y
Q801	VSKTA1274Y/-1	J	AE	Silicon,PNP,KTA1274 Y
Q802	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q821	VHIAN78L05/-1	J	AE	Constant Voltage Regulator, AN78L05
Q823	VSKTC2026//-1	J	AF	Silicon,NPN,KTC2026
Q901~909	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q910	VSKTC3203Y/-1	J	AC	Silicon,NPN,KTC3203 Y
QT21	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
QT22	VSKTA1266GR-1	J	AB	Silicon,PNP,KTA1266 GR

DIODES

D21,22	VHD1SS133//-1	J	AA	Silicon,1SS133
D301~304	VHD1SS133//-1	J	AA	Silicon,1SS133
D561~566	VHD1SS133//-1	J	AA	Silicon,1SS133
D601,602	VHD1SS133//-1	J	AA	Silicon,1SS133
D712~718	VHD1SS133//-1	J	AA	Silicon,1SS133
D720,721	VHD1SS133//-1	J	AA	Silicon,1SS133
D801	VHD1SS133//-1	J	AA	Silicon,1SS133
D802,803	VHDTS6B04GM-1	J	AP	Silicon,TS6B04GM
D804~810	VHD1N4004S/-1	J	AB	Silicon,1N4004S
D811	VHD1SS133//-1	J	AA	Silicon,1SS133
D812~815	VHD1N4004S/-1	J	AB	Silicon,1N4004S
D816,817	VHD1SS133//-1	J	AA	Silicon,1SS133
D818	VHD1N4004S/-1	J	AB	Silicon,1N4004S
D901~909	VHD1SS133//-1	J	AA	Silicon,1SS133
LED701~704	VHPSLI325YC-1	J	AB	LED,Yellow,SLI325YC
LED722	VHP4204SRT7-1	J	AD	LED,Red,4204SRT7
ZD61	VHEDZ3R9BSB-1	J	AC	Zener,3.9V,DZ3.9BSB
ZD351	VHEMTZJ5R1B-1	J	AC	Zener,5.1V,MTZJ5.1B
ZD561	VHEMTZJ6R2C-1	J	AC	Zener,6.2V,MTZJ6.2C
ZD801	VHEMTZJ360C-1	J	AB	Zener,36V,MTZJ36C
ZD802	VHEMTZJ6R2A-1	J	AA	Zener,6.2V,MTZJ6.2A
ZD803	VHEMTZJ130C-1	J	AB	Zener,13V,MTZJ13C
ZDT21	VHEDZ5R1BSB-1	J	AC	Zener,5.1V,DZ5.1BSB

FILTERS

CF301,302	RFILF0072AFZZ	J	AG	FM IF
CF351	RFILF0003AWZZ	J	AK	FM IF
CF352	RFILA0009AWZZ	J	AE	AM IF

TRANSFORMERS

T303	RCILA1064AFZZ	J	AD	AM Antenna
T306	RCILB1074AFZZ	J	AC	AM,OSC
T351	RCILI0019AWZZ	J	AD	AM IF
⚠ T801	RTRNP0303AWZZ	J	BH	Power,Main
⚠ T802	RTRNP0313AWZZ	J	AN	Power,Sub

COILS

L61	VP-XHR82K0000	J	AC	0.82 µH
L62	VP-DH2R2K0000	J	AB	2.2 mH,Peaking
L104	VP-MK331K0000	J	AB	330 µH,Choke
L105,106	VP-XH2R2K0000	J	AB	2.2 µH,Choke
L341	RBLN-0002AWZZ	J	AE	Balun
L342	VP-DH2R2K0000	J	AB	2.2 mH,Peaking
L351,352	VP-DH101K0000	J	AB	100 µH,Choke
L354	RFILL0001AWZZ	J	AE	Low Pass Filter
L601	VP-DH2R2K0000	J	AB	2.2 mH,Peaking
L701	VP-DH101K0000	J	AB	100 µH,Choke
⚠ L801	RCILZ0022AWZZ	J	AG	Line Filter
L902~905	RCILZ0137AFZZ	J	AA	0.29 µH
LT21,22	VP-XH2R2K0000	J	AB	2.2 µH,Choke

VARIABLE CAPACITOR

VD301	VHCSVC348S/-1	J	AK	Variable Capacitance,SVC348S

VIBRATORS

X1	92LCRSTL1746A	J	AC	Ceramic,16.9344 MHz
X351	92LCRSTL1425A	J	AF	Crystal,456 kHz
X352	RCRSP0002AWZZ	J	AH	Crystal,4.5 MHz
XL701	RCRSP0003AWZZ	J	AH	Crystal,4.1943 MHz
XT21	RCRSP0010AWZZ	J	AH	Crystal,4.332 MHz

CAPACITORS

C6	VCEAZA0JW107M	J	AC	100 µF,6.3V,Electrolytic
C7	VCEAZA1CW106M	J	AC	10 µF,16V,Electrolytic
C8	VCKYTV1EF223Z	J	AA	0.022 µF,25V
C11	RC-EZY476AF0J	J	AB	47 µF,6.3V,Electrolytic
C12	VCKYTV1EF223Z	J	AA	0.022 µF,25V
C13	VCKYTV1HB103K	J	AA	0.01 µF,50V
C14	VCFYDA1HA334J	J	AC	0.33 µF,50V,Polyester
C17	VCKYTV1HB472K	J	AA	0.0047 µF,50V
C18	VCCCTV1HH3R0C	J	AA	3 pF (CH),50V
C20,21	VCTYPA1CX104K	J	AB	0.1 µF,16V
C22	VCKYTV1HB101K	J	AA	100 pF,50V
C23	VCTYPA1CX473K	J	AA	0.047 µF,16V
C24	VCEAZA1HW225M	J	AB	2.2 µF,50V,Electrolytic
C25	VCKYTV1EF223Z	J	AA	0.022 µF,25V
C26	VCTYPA1CX473K	J	AA	0.047 µF,16V
C27	VCKYBT1HF104Z	J		0.1 µF,50V
C28	VCEAZA1AW476M	J	AB	47 µF,10V,Electrolytic
C29,30	VCKYTV1EF223Z	J	AA	0.022 µF,25V
C31	VCEAZA0JW107M	J	AC	100 µF,6.3V,Electrolytic
C34	VCKZPA1HF223Z	J	AA	0.022 µF,50V
C38,39	VCEAZA1CW106M	J	AC	10 µF,16V,Electrolytic
C40	VCKYTV1HB152K	J	AA	0.0015 µF,50V
C41	VCEAZA0JW107M	J	AC	100 µF,6.3V,Electrolytic
C42	VCCCTV1HH680J	J	AA	68 pF (CH),50V
C43	VCKYTV1HB152K	J	AA	0.0015 µF,50V
C44	VCKYTV1EF223Z	J	AA	0.022 µF,25V
C45	VCEAZA0JW107M	J	AC	100 µF,6.3V,Electrolytic
C46	VCKYTV1EF223Z	J	AA	0.022 µF,25V
C47	VCEAZA0JW107M	J	AC	100 µF,6.3V,Electrolytic
C49,50	VCEAZA0JW107M	J	AC	100 µF,6.3V,Electrolytic
C51	VCEAZA1AW476M	J	AB	47 µF,10V,Electrolytic
C52	VCTYPA1CX103K	J	AA	0.01 µF,16V
C53	VCKYTV1HB102K	J	AA	0.001 µF,50V
C54	VCEAZA1AW476M	J	AB	47 µF,10V,Electrolytic

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
C55	VCKYTV1HB103K	J	AA	0.01 µF,50V
C56	VCEAZA0JW337M	J	AC	330 µF,6.3V,Electrolytic
C64	RC-EZY476AF0J	J	AB	47 µF,6.3V,Electrolytic
C71	VCKYTV1HB101K	J	AA	100 pF,50V
C72	VCKYTV1HB103K	J	AA	0.01 µF,50V
C73~78	VCKYTV1HB101K	J	AA	100 pF,50V
C80~83	VCKYTV1EF223Z	J	AA	0.022 µF,25V
C101,102	VCKYMN1HB561K	J	AA	560 pF,50V
C105	VCKYBT1HB181K	J	AA	180 pF,50V
C106	VCKYMN1HB181K	J	AA	180 pF,50V
C107,108	VCKYMN1HB561K	J	AA	560 pF,50V
C111~114	VCKYMN1HB331K	J	AA	330 pF,50V
C115,116	VCEAZA1EW107M	J	AB	100 µF,25V,Electrolytic
C117,118	VCTYPA1EX333K	J	AA	0.033 µF,25V
C119,120	VCKYMN1HB561K	J	AA	560 pF,50V
C121,122	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C127	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C128	VCEAZA1HW335M	J	AB	3.3 µF,50V,Electrolytic
C131	VCKYMN1HB271K	J	AA	270 pF,50V
C132	VCKYPA1HB271K	J	AA	270 pF,50V
C133,134	VCEAZA1EW226M	J	AB	22 µF,25V,Electrolytic
C135,136	VCTYPA1CX223K	J	AA	0.022 µF,16V
C139,140	VCTYMN1CX332K	J	AA	0.0033 µF,16V
C141,142	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C145	VCEAZA1EW226M	J	AB	22 µF,25V,Electrolytic
C146	VCEAZA1AW227M	J	AC	220 µF,10V,Electrolytic
C150	VCQPKA2AA822J	J	AA	0.0082 µF,100V,Polypropylene
C151	VCQYKA1HM393K	J	AB	0.039 µF,50V,Mylar
C152	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C153	VCEAZA1CW107M	J	AC	100 µF,16V,Electrolytic
C154	VCQYKA1HM473K	J	AB	0.047 µF,50V,Mylar
C301	VCTYMN1EF103Z	J	AB	0.01 µF,25V
C302	VCKYMN1HB102K	J	AA	0.001 µF,50V
C321	VCEAZA1CW107M	J	AC	100 µF,16V,Electrolytic
C323	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C330	VCCUMN1HJ150J	J	AA	15 pF (UJ),50V
C331	VCKZPA1HF473Z	J	AA	0.047 µF,50V
C332	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C334	VCCUMN1HJ270J	J	AA	27 pF (UJ),50V
C335	VCKYMN1HB561K	J	AA	560 pF,50V
C338	VCKYMN1HB102K	J	AA	0.001 µF,50V
C341,342	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C345~347	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C348	VCTYMN1EF103Z	J	AB	0.01 µF,25V
C352	VCEAZA1CW106M	J	AC	10 µF,16V,Electrolytic
C353,354	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C355	VCCSMN1HL220J	J	AA	22 pF,50V
C356	VCKYMN1HB102K	J	AA	0.001 µF,50V
C357	VCEAEA1HW225M	J	AB	2.2 µF,50V,Electrolytic
C358	VCEAEA1HW105M	J	AB	1 µF,50V,Electrolytic
C359	VCTYBT1EF223Z	J	AA	0.022 µF,25V
C361	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C362	VCEAZA1HW335M	J	AB	3.3 µF,50V,Electrolytic
C363	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C364	VCEAZA1CW106M	J	AC	10 µF,16V,Electrolytic
C365	VCTYPA1CX223K	J	AA	0.022 µF,16V
C366	VCKYMN1HB102K	J	AA	0.001 µF,50V
C367,368	VCEAEA1HW105M	J	AB	1 µF,50V,Electrolytic
C369	VCCUMN1HJ270J	J	AA	27 pF (UJ),50V
C370~372	VCEAEA1HW105M	J	AB	1 µF,50V,Electrolytic
C373,374	VCTYPA1CX153K	J	AA	0.015 µF,16V
C380	VCEAZA1CW106M	J	AC	10 µF,16V,Electrolytic
C381	VCCCMN1HH120J	J	AA	12 pF (CH),50V
C382	VCCCMN1HH150J	J	AA	15 pF (CH),50V
C385	VCTYMN1CY103N	J	AA	0.01 µF,16V
C386	VCKYMN1HB331K	J	AA	330 pF,50V
C387	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C388	VCKYMN1HB102K	J	AA	0.001 µF,50V
C391	VCEAZA1CW476M	J	AB	47 µF,16V,Electrolytic
C392	VCKYMN1HB102K	J	AA	0.001 µF,50V
C393	VCEAEA1HW105M	J	AB	1 µF,50V,Electrolytic
C394	VCEAZA1CW476M	J	AB	47 µF,16V,Electrolytic
C395	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C396	VCEAZA1AW107M	J	AB	100 µF,10V,Electrolytic
C397	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C398	VCEAZA1AW107M	J	AB	100 µF,10V,Electrolytic
C399	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C561,562	VCKYMN1HB271K	J	AA	270 pF,50V
C563	VCTYMN1CX682K	J	AA	0.0068 µF,16V
C564,565	VCEAZA1HW225M	J	AB	2.2 µF,50V,Electrolytic
C566	VCTYMN1CX682K	J	AA	0.0068 µF,16V
C567~571	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C572	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C573	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C574~577	VCTYMN1CX272K	J	AA	0.0027 µF,16V
C578,579	VCEAZA1HW225M	J	AB	2.2 µF,50V,Electrolytic
C602	VCEAZA1HW226M	J	AB	22 µF,50V,Electrolytic
C604	VCTYPA1CX223K	J	AA	0.022 µF,16V
C606	VCEAZA1CW107M	J	AC	100 µF,16V,Electrolytic
C607~610	VCQYKA1HM104K	J	AB	0.1 µF,50V,Mylar
C611,612	VCQYKA1HM272K	J	AA	0.0027 µF,50V,Mylar
C613,614	VCEAZA1HW106M	J	AB	10 µF,50V,Electrolytic
C615,616	VCKYMN1HB102K	J	AA	0.001 µF,50V
C617	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C618	VCEAZA1EW226M	J	AB	22 µF,25V,Electrolytic
C619,620	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C621,622	VCEAZA1HW475M	J	AB	4.7 µF,50V,Electrolytic
C623~630	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C631,632	VCKYMN1HB391K	J	AA	390 pF,50V
C634~636	VCKYMN1HB102K	J	AA	0.001 µF,50V
C639,640	VCKYMN1HB101K	J	AA	100 pF,50V
C641	VCQYKA1HM332K	J	AA	0.0033 µF,50V,Mylar
C644	VCTYBT1CX332M	J	AA	0.0033 µF,16V
C645,646	VCQYKA1HM222K	J	AA	0.0022 µF,50V,Mylar
C647	VCKYBT1HB102K	J	AA	0.001 µF,50V
C649	VCKYBT1HB102K	J	AA	0.001 µF,50V
C650	VCKYBT1HB102K	J	AA	0.001 µF,50V
C709	VCEAZA1HW476M	J	AB	47 µF,50V,Electrolytic
C715	VCEAZA1HW226M	J	AB	22 µF,50V,Electrolytic
C716,717	VCEAZA1HW225M	J	AB	2.2 µF,50V,Electrolytic
C719	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C720,721	VCKYBT1HB102K	J	AA	0.001 µF,50V
C722	VCEAZA1HW476M	J	AB	47 µF,50V,Electrolytic
C723	VCCSMN1HL150J	J	AA	15 pF,50V
C724	VCCSMN1HL180J	J	AA	18 pF,50V
C725	VCTYBT1EF223Z	J	AA	0.022 µF,25V
C726	VCEAZA1AW227M	J	AC	220 µF,10V,Electrolytic
C727	VCEAZA1HW104M	J	AB	0.1 µF,50V,Electrolytic
C728	VCTYMN1CY103N	J	AA	0.01 µF,16V
C729	VCEAEA1HW335M	J	AB	3.3 µF,50V,Electrolytic
C730	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C731	VCEAZA1HW106M	J	AB	10 µF,50V,Electrolytic
C732	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C733	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C734	VCEAZA1CW476M	J	AB	47 µF,16V,Electrolytic
C735	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C738	VCKYMN1HB471K	J	AA	470 pF,50V
C740,741	VCEAZA1CW107M	J	AC	100 µF,16V,Electrolytic
C801,802	VCEAZW1HW228M	J	AH	2200 µF,50V,Electrolytic
C803~806	VCFYDA1HA224J	J	AB	0.22 µF,50V,Polyester
C807,808	VCEAZA1HW107M	J	AC	100 µF,50V,Electrolytic
C809	VCEAZV1JW227M	J	AC	220 µF,63V,Electrolytic
C810,811	VCEAZA1HW476M	J	AB	47 µF,50V,Electrolytic
C812	VCEAZA1VW107M	J	AC	100 µF,35V,Electrolytic
C813,814	RC-EZ0027AWZZ	J	AN	3300 µF,63V,Electrolytic
C815	VCKZPA1HF223Z	J	AA	0.022 µF,50V
C816	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C817	VCFYDA1HA224J	J	AB	0.22 µF,50V,Polyester
C818	VCEAZV1VW477M	J	AD	470 µF,35V,Electrolytic
C819	VCEAZA0JW108M	J	AC	1000 µF,6.3V,Electrolytic
C820	VCEAZW1EW338M	J	AG	3300 µF,25V,Electrolytic
C821,822	VCKZPA1HF223Z	J	AA	0.022 µF,50V
C823	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C824,825	VCKZPA1HF223Z	J	AA	0.022 µF,50V
C826	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C827	VCEAZA1EW226M	J	AB	22 µF,25V,Electrolytic
C828,829	VCKZPA1HF223Z	J	AA	0.022 µF,50V
C830	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C831	RC-KZ002LAWZZ	J	AE	0.0047 µF,250V,Ceramic
C832,833	VCFYDA1HA224J	J	AB	0.22 µF,50V,Polyester
C834	VCEAZV1JW107M	J		100 µF,63V,Electrolytic
C901,902	VCEAZA1HW106M	J	AB	10 µF,50V,Electrolytic
C903,904	VCEAZA1HW107M	J	AC	100 µF,50V,Electrolytic
C905	VCKZPA1HF223Z	J	AA	0.022 µF,50V
C906,907	VCCSPA1HL221J	J	AA	220 pF,50V
C908	VCEAZA1HW476M	J	AB	47 µF,50V,Electrolytic
C909,910	VCCSPA1HL150J	J	AA	15 pF,50V
C911	VCEAZA1HW476M	J	AB	47 µF,50V,Electrolytic
C912	VCKZPA1HF223Z	J	AA	0.022 µF,50V
C914	VCEAZA1HW476M	J	AB	47 µF,50V,Electrolytic
C916,917	VCFYHA1HA104J	J	AB	0.1 µF,50V,Thin Film
C918	VCQYKA1HM104K	J	AB	0.1 µF,50V,Mylar
C919	VCFYHA1HA104J	J	AB	0.1 µF,50V,Thin Film
C920,921	VCEAZA1HW106M	J	AB	10 µF,50V,Electrolytic

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NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
C922,923	VCEAZA1HW107M	J	AC	100 µF,50V,Electrolytic
C924,925	VCKZPA1HF223Z	J	AA	0.022 µF,50V
C926,927	VCCSPA1HL221J	J	AA	220 pF,50V
C928,929	VCCSPA1HL150J	J	AA	15 pF,50V
C930,931	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C932	VCEAZA1HW476M	J	AB	47 µF,50V,Electrolytic
C933~935	VCQYKA1HM104K	J	AB	0.1 µF,50V,Mylar
C936	VCFYHA1HA104J	J	AB	0.1 µF,50V,Thin Film
C937	VCEAZA1HW476M	J	AB	47 µF,50V,Electrolytic
C938	VCEAZA1HW106M	J	AB	10 µF,50V,Electrolytic
C941,942	VCQYKA1HM153K	J	AB	0.015 µF,50V,Mylar
C943,944	VCTYPA1CX102K	J	AA	0.001 µF,16V
C945,946	VCFYHA1HA154J	J	AC	0.15 µF,50V,Thin Film
C947,948	VCCSPA1HL101J	J	AA	100 pF,50V
C949,950	VCKZPA1HF223Z	J	AA	0.022 µF,50V
C951,952	VCEAZA1CW106M	J	AC	10 µF,16V,Electrolytic
C953	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C954,955	VCFYHA1HA154J	J	AC	0.15 µF,50V,Thin Film
C956	VCEAZA1HW476M	J	AB	47 µF,50V,Electrolytic
C957	VCKZPA1HF223Z	J	AA	0.022 µF,50V
C958,959	VCEAZA1HW225M	J	AB	2.2 µF,50V,Electrolytic
C960,961	VCQYKA1HM104K	J	AB	0.1 µF,50V,Mylar
C962~977	VCKZPA1HF223Z	J	AA	0.022 µF,50V
C979~982	VCTYPA1CX102K	J	AA	0.001 µF,16V
C983	VCKZPA1HF223Z	J	AA	0.022 µF,50V
C985~987	VCKZPA1HF223Z	J	AA	0.022 µF,50V
C989	VCKZPA1HF223Z	J	AA	0.022 µF,50V
CT21	RC-EZD476AF1C	J	AC	47 µF,16V,Electrolytic
CT22	VCKZPA1HF223Z	J	AA	0.022 µF,50V
CT23	RC-EZD106AF1C	J	AB	10 µF,16V,Electrolytic
CT24	VCKZPA1HF223Z	J	AA	0.022 µF,50V
CT25	VCCSPA1HL561K	J	AA	560 pF,50V
CT26,27	VCCCPA1HH220J	J	AA	22 pF (CH),50V
CT28	RC-EZD476AF1C	J	AC	47 µF,16V,Electrolytic
CT29	VCKZPA1HF223Z	J	AA	0.022 µF,50V
CT36,37	VCKZPA1HF223Z	J	AA	0.022 µF,50V
CT43	RC-EZD106AF1C	J	AB	10 µF,16V,Electrolytic

RESISTORS

	VRD-MN2BD000C	J	AA	0 ohm,Jumper,ø1.4×3.5mm,Ivory
	VRS-TV2AB000J	J	AA	0 ohm,Jumper,1.25×2mm,Green
R3	VRS-TV2AB473J	J	AA	47 kohms,1/10W
R4	VRS-TV2AB103J	J	AA	10 kohm,1/10W
R5	VRS-TV2AB393J	J	AA	39 kohms,1/10W
R6	VRS-TV2AB273J	J	AA	27 kohms,1/10W
R7	VRS-TV2AB682J	J	AA	6.8 kohms,1/10W
R8	VRS-TV2AB331J	J	AA	330 ohms,1/10W
R10	VRS-TV2AB273J	J	AA	27 kohms,1/10W
R11	VRS-TV2AB123J	J	AA	12 kohms,1/10W
R12,13	VRS-TV2AB681J	J	AA	680 ohms,1/10W
R14	VRS-TV2AB122J	J	AA	1.2 kohms,1/10W
R15	VRS-TV2AB103J	J	AA	10 kohm,1/10W
R16	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R17	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R19	VRD-ST2CD470J	J	AA	47 ohms,1/6W
R20	VRS-TV2AB221J	J	AA	220 ohms,1/10W
R21,22	VRS-TV2AB471J	J	AA	470 ohms,1/10W
R25	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R35	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R38	VRD-ST2CD271J	J	AA	270 ohms,1/6W
R39	VRD-ST2CD471J	J	AA	470 ohms,1/6W
R40	VRS-TV2AB122J	J	AA	1.2 kohms,1/10W
R42	VRS-TV2AB124J	J	AA	120 kohms,1/10W
R44	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R45	VRS-TV2AB122J	J	AA	1.2 kohms,1/10W
R46	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R47	VRD-ST2EE3R3J	J	AA	3.3 ohms,1/4W
R48	VRS-TV2AB682J	J	AA	6.8 kohms,1/10W
R50	VRS-TV2AB470J	J	AA	47 ohms,1/10W
R51~54	VRS-TV2AB683J	J	AA	68 kohms,1/10W
R55,56	VRD-ST2CD683J	J	AA	68 kohms,1/6W
R58	VRD-ST2CD221J	J	AA	220 ohms,1/6W
R67,68	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R71~78	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R79	VRS-TV2AB155J	J	AA	1.5 Mohms,1/10W
R80	VRD-ST2CD105J	J	AA	1 Mohm,1/6W
R81,82	VRS-TV2AB222J	J	AA	2.2 kohms,1/10W
R83,84	VRS-TV2AB103J	J	AA	10 kohm,1/10W
R94,95	VRS-TV2AB103J	J	AA	10 kohm,1/10W
R96	VRD-ST2CD152J	J	AA	1.5 kohms,1/6W
R101	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R102	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R103,104	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
R105,106	VRD-MN2BD332J	J	AA	3.3 kohms,1/8W
R107,108	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R109,110	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R111	VRD-MN2BD153J	J	AA	15 kohms,1/8W
R112	VRD-ST2CD153J	J	AA	15 kohms,1/6W
R113,114	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R115	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R117,118	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R119,120	VRD-ST2CD560J	J	AA	56 ohms,1/6W
R121,122	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R123,124	VRD-MN2BD392J	J	AA	3.9 kohms,1/8W
R125	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W
R126	VRD-ST2CD562J	J	AA	5.6 kohms,1/6W
R131	VRD-MN2BD333J	J	AA	33 kohms,1/8W
R132	VRD-ST2CD333J	J	AA	33 kohms,1/6W
R134	VRD-MN2BD683J	J	AA	68 kohms,1/8W
R135,136	VRD-MN2BD392J	J	AA	3.9 kohms,1/8W
R137	VRD-MN2BD682J	J	AA	6.8 kohms,1/8W
R138	VRD-ST2CD682J	J	AA	6.8 kohms,1/6W
R139,140	VRD-MN2BD152J	J	AA	1.5 kohms,1/8W
R141,142	VRD-MN2BD101J	J	AA	100 ohm,1/8W
R145,146	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R153,154	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R155	VRD-MN2BD151J	J	AA	150 ohms,1/8W
R156	VRD-ST2CD224J	J	AA	220 kohms,1/6W
R157	VRD-MN2BD224J	J	AA	220 kohms,1/8W
R158	VRD-ST2EE221J	J	AA	220 ohms,1/4W
R160	VRD-RT2HD820J	J	AA	82 ohms,1/2W
R162	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R164	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R166	VRD-MN2BD223J	J	AA	22 kohms,1/8W
R167	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R168	VRD-ST2CD4R7J	J	AA	4.7 ohms,1/6W
R323	VRD-MN2BD683J	J	AA	68 kohms,1/8W
R336	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R344	VRD-MN2BD471J	J	AA	470 ohms,1/8W
R345	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R346	VRD-MN2BD331J	J	AA	330 ohms,1/8W
R347	VRD-MN2BD682J	J	AA	6.8 kohms,1/8W
R348	VRD-MN2BD681J	J	AA	680 ohms,1/8W
R349	VRD-MN2BD330J	J	AA	33 ohms,1/8W
R350	VRD-MN2BD272J	J	AA	2.7 kohms,1/8W
R351	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W
R352	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R353	VRD-MN2BD271J	J	AA	270 ohms,1/8W
R355	VRD-MN2BD332J	J	AA	3.3 kohms,1/8W
R356	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R357	VRD-ST2CD474J	J	AA	470 kohms,1/6W
R358	VRD-ST2CD392J	J	AA	3.9 kohms,1/6W
R359	VRD-MN2BD182J	J	AA	1.8 kohms,1/8W
R360	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R363,364	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R365	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R369	VRD-MN2BD150J	J	AA	15 ohms,1/8W
R370	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R372~374	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R376	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R377	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R378	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R379	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
R380	VRD-MN2BD152J	J	AA	1.5 kohms,1/8W
R381	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R382	VRD-ST2EE151J	J	AA	150 ohms,1/4W
R383	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W
R384	VRD-ST2CD562J	J	AA	5.6 kohms,1/6W
R385	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W
R386	VRD-ST2CD223J	J	AA	22 kohms,1/6W
R387	VRD-ST2CD562J	J	AA	5.6 kohms,1/6W
R388	VRD-MN2BD392J	J	AA	3.9 kohms,1/8W
R391,392	VRD-ST2EE271J	J	AA	270 ohms,1/4W
R393	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R395	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R399	VRD-MN2BD330J	J	AA	33 ohms,1/8W
R561	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R562	VRD-MN2BD474J	J	AA	470 kohms,1/8W
R563	VRD-MN2BD123J	J	AA	12 kohms,1/8W
R564	VRD-MN2BD333J	J	AA	33 kohms,1/8W
R565	VRD-MN2BD394J	J	AA	390 kohms,1/8W
R566	VRD-MN2BD224J	J	AA	220 kohms,1/8W
R567,568	VRD-MN2BD225J	J	AA	2.2 Mohms,1/8W

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
R569,570	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R573	VRD-MN2BD224J	J	AA	220 kohms,1/8W
R574	VRD-ST2EE331J	J	AA	330 ohms,1/4W
R575	VRD-MN2BD154J	J	AA	150 kohms,1/8W
R576	VRD-ST2EE331J	J	AA	330 ohms,1/4W
R577	VRD-ST2CD331J	J	AA	330 ohms,1/6W
R578	VRD-MN2BD154J	J	AA	150 kohms,1/8W
R579	VRD-MN2BD224J	J	AA	220 kohms,1/8W
R580	VRD-ST2CD331J	J	AA	330 ohms,1/6W
R581	VRD-ST2CD683J	J	AA	68 kohms,1/6W
R582	VRD-MN2BD123J	J	AA	12 kohms,1/8W
R583	VRD-MN2BD683J	J	AA	68 kohms,1/8W
R584	VRD-ST2CD123J	J	AA	12 kohms,1/6W
R585,586	VRD-MN2BD224J	J	AA	220 kohms,1/8W
R587,588	VRD-MN2BD394J	J	AA	390 kohms,1/8W
R589,590	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R601,602	VRD-ST2CD680J	J	AA	68 ohms,1/6W
R605	VRD-MN2BD392J	J	AA	3.9 kohms,1/8W
R606	VRD-ST2CD392J	J	AA	3.9 kohms,1/6W
R607	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R608	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R609,610	VRD-ST2CD331J	J	AA	330 ohms,1/6W
R611	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W
R612	VRD-ST2CD562J	J	AA	5.6 kohms,1/6W
R613,614	VRD-MN2BD391J	J	AA	390 ohms,1/8W
R615,616	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
R617	VRD-MN2BD332J	J	AA	3.3 kohms,1/8W
R618	VRD-ST2CD332J	J	AA	3.3 kohms,1/6W
R619,620	VRD-MN2BD223J	J	AA	22 kohms,1/8W
R621,622	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
R631,632	VRD-MN2BD682J	J	AA	6.8 kohms,1/8W
R633,634	VRD-MN2BD333J	J	AA	33 kohms,1/8W
R637,638	VRD-MN2BD474J	J	AA	470 kohms,1/8W
R700	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R701	VRD-ST2CD104J	J	AA	100 kohm,1/6W
R702	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R704	VRD-ST2CD104J	J	AA	100 kohm,1/6W
R705	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R714	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R715	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R716	VRD-ST2CD104J	J	AA	100 kohm,1/6W
R717,718	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R719	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R720	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R721	VRD-ST2CD472J	J	AA	4.7 kohms,1/6W
R724	VRD-ST2CD330J	J	AA	33 ohms,1/6W
R732,733	VRD-MN2BD683J	J	AA	68 kohms,1/8W
R734	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R735	VRD-MN2BD474J	J	AA	470 kohms,1/8W
R736,737	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R738	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R739	VRD-MN2BD474J	J	AA	470 kohms,1/8W
R740~743	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R744	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R746	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R747,748	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R749	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R750,751	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R752	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R753	VRD-ST2CD182J	J	AA	1.8 kohms,1/6W
R754~756	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
R757	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R758~762	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R763~765	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R766,767	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R768	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R769~773	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R775,776	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R777	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R778~781	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R782~784	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R785,786	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R787~790	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R794	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R795	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R796	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R797	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R798	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R799	VRD-MN2BD101J	J	AA	100 ohm,1/8W
R801	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
R802	VRD-ST2EE100J	J	AA	10 ohm,1/4W
R803	VRD-ST2CD123J	J	AA	12 kohms,1/6W
R804	VRD-ST2CD473J	J	AA	47 kohms,1/6W
R805	VRD-ST2EE223J	J	AA	22 kohms,1/4W
R806	VRS-VV3DA681J	J	AC	680 ohms,2W
R807	VRD-ST2CD221J	J	AA	220 ohms,1/6W
R809	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R810	VRD-ST2CD223J	J	AA	22 kohms,1/6W
R811	VRD-RT2HD3R3J	J	AA	3.3 ohms,1/2W
R812	VRD-ST2CD330J	J	AA	33 ohms,1/6W
R813	VRD-ST2CD223J	J	AA	22 kohms,1/6W
R816	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R817	VRD-ST2CD473J	J	AA	47 kohms,1/6W
R819,820	VRD-ST2EE223J	J	AA	22 kohms,1/4W
R825	VRD-RT2HD3R3J	J	AA	3.3 ohms,1/2W
⚠ R901	VRG-ST2EC101J	J	AB	100 ohm,1/4W,Fusible
R902	VRD-ST2CD223J	J	AA	22 kohms,1/6W
R903,904	VRD-ST2CD563J	J	AA	56 kohms,1/6W
R906~909	VRD-ST2CD102J	J	AA	1 kohm,1/6W
⚠ R910	VRG-ST2EC101J	J	AB	100 ohm,1/4W,Fusible
R911,912	VRN-VV3AAR10J	J	AB	0.1 ohm,1W
R913,914	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R915,916	VRD-ST2CD682J	J	AA	6.8 kohms,1/6W
R917,918	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R919~921	VRD-ST2CD563J	J	AA	56 kohms,1/6W
R922,923	VRD-ST2EE4R7J	J	AA	4.7 ohms,1/4W
⚠ R924,925	VRG-ST2EC101J	J	AB	100 ohm,1/4W,Fusible
R926	VRD-ST2CD223J	J	AA	22 kohms,1/6W
R927,928	VRD-ST2CD563J	J	AA	56 kohms,1/6W
R929,930	VRD-ST2CD821J	J	AA	820 ohms,1/6W
R931,932	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R933,934	VRN-VV3AAR10J	J	AB	0.1 ohm,1W
R935,936	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R937,938	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R939~941	VRD-ST2CD563J	J	AA	56 kohms,1/6W
R942,943	VRD-ST2EE4R7J	J	AA	4.7 ohms,1/4W
R944~947	VRD-RT2HD271J	J	AA	270 ohms,1/2W
R948~951	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
R952	VRD-ST2CD153J	J	AA	15 kohms,1/6W
R953	VRD-ST2CD683J	J	AA	68 kohms,1/6W
R954	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R955	VRD-RT2HD4R7J	J	AA	4.7 ohms,1/2W
R956,957	VRD-ST2CD183J	J	AA	18 kohms,1/6W
R958,959	VRD-ST2CD822J	J	AA	8.2 kohms,1/6W
R960,961	VRD-ST2CD152J	J	AA	1.5 kohms,1/6W
R962,963	VRD-ST2CD472J	J	AA	4.7 kohms,1/6W
R964,965	VRD-ST2CD183J	J	AA	18 kohms,1/6W
R966,967	VRD-ST2EE331J	J	AA	330 ohms,1/4W
R968,969	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R970,971	VRD-ST2CD683J	J	AA	68 kohms,1/6W
R972,973	VRD-ST2CD104J	J	AA	100 kohm,1/6W
R974,975	VRD-ST2CD683J	J	AA	68 kohms,1/6W
R976,977	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R979	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R980	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R981~988	VRD-ST2EE6R8J	J	AA	6.8 ohms,1/4W
R989~992	VRD-ST2CD680J	J	AA	68 ohms,1/6W
R993~996	VRN-VV3DAR22J	J	AC	0.22 ohms,2W
RD01	VRD-MN2BD681J	J	AA	680 ohms,1/8W
RD02	VRD-MN2BD821J	J	AA	820 ohms,1/8W
RD03	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RD04	VRD-MN2BD152J	J	AA	1.5 kohms,1/8W
RD05	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
RD06	VRD-MN2BD272J	J	AA	2.7 kohms,1/8W
RD07	VRD-MN2BD392J	J	AA	3.9 kohms,1/8W
RD08	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W
RD09	VRD-MN2BD103J	J	AA	10 kohm,1/8W
RD10	VRD-MN2BD183J	J	AA	18 kohms,1/8W
RD11	VRD-MN2BD333J	J	AA	33 kohms,1/8W
RD12	VRD-MN2BD104J	J	AA	100 kohm,1/8W
RD13	VRD-ST2CD681J	J	AA	680 ohms,1/6W
RD14	VRD-MN2BD821J	J	AA	820 ohms,1/8W
RD25	VRD-MN2BD681J	J	AA	680 ohms,1/8W
RD26	VRD-MN2BD821J	J	AA	820 ohms,1/8W
RD27	VRD-MN2BD102J	J	AA	1 kohm,1/8W
RD28	VRD-MN2BD152J	J	AA	1.5 kohms,1/8W
RD29	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
RD30	VRD-MN2BD272J	J	AA	2.7 kohms,1/8W
RD31	VRD-MN2BD392J	J	AA	3.9 kohms,1/8W
RD32	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W
RD33	VRD-MN2BD103J	J	AA	10 kohm,1/8W
RD34	VRD-MN2BD153J	J	AA	15 kohms,1/8W
RD35	VRD-MN2BD333J	J	AA	33 kohms,1/8W
RD36	VRD-MN2BD104J	J	AA	100 kohm,1/8W

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
RS701~704	VRD-MN2BD102J	J	AA	1 kohm,1/8W
RS708	VRD-MN2BD103J	J	AA	10 kohm,1/8W
RS709	VRD-MN2BD223J	J	AA	22 kohms,1/8W
RS710	VRD-MN2BD102J	J	AA	1 kohm,1/8W
RS720~722	VRD-MN2BD104J	J	AA	100 kohm,1/8W
RS723~725	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RS727,728	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
RS729~732	VRD-MN2BD103J	J	AA	10 kohm,1/8W
RS734,735	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
RT21	VRD-ST2CD104J	J	AA	100 kohm,1/6W
RT26	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RT28~30	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RT32	VRD-ST2CD103J	J	AA	10 kohm,1/6W
RT33,34	VRD-ST2CD563J	J	AA	56 kohms,1/6W
RT35~37	VRD-ST2CD224J	J	AA	220 kohms,1/6W
RT48,49	VRD-ST2EE391J	J	AA	390 ohms,1/4W
RT51	VRD-ST2CD103J	J	AA	10 kohm,1/6W

OTHER CIRCUITRY PARTS

BI4/CNS4	QCNWN1572AWZZ	J	AF	Connector Ass'y,6/6Pin
BI601/CNS601	QCNWN1540AWZZ	J	AF	Connector Ass'y,5/5Pin
BI703/CNS703	QCNWN1562AWZZ	J	AH	Connector Ass'y,10/10Pin
BI704/CNS704	QCNWN1561AWZZ	J	AF	Connector Ass'y,5/5Pin
BI705A/B	QCNWN1580AWZZ	J		Connector Ass'y,3/3Pin
CNP1	QCNCM704GAWZZ	J	AC	Plug,7Pin
CNP2	QCNCM704HAWZZ	J	AC	Plug,8Pin
CNP3	92LCONE6P53253	J	AC	Plug,6Pin
CNP3A	92LCONE6P53254	J	AC	Plug,6Pin
CNP4	QCNCM705FAFZZ	J	AB	Plug,6Pin
CNP11	92LCONE5P53254	J	AB	Plug,5Pin
CNP12	92LCONEAP53254	J	AD	Plug,10Pin
CNP101	QCNCM705CAFZZ	J	AA	Plug,3Pin
CNP102	QCNCM705GAFZZ	J	AB	Plug,7Pin
CNP302	92LCONE2P5268	J	AB	Plug,2Pin
CNP303	QCNCM010HAWZZ	J	AC	Plug,8Pin
CNP304	QCNCW010HAWZZ	J	AD	Socket,8Pin
CNP701A	QCNCWZX29AWZZ	J	AE	Plug,29Pin
CNP701B	QCNCWZF29AWZZ	J	AE	Plug,29Pin
CNP702	QCNCWZY13AWZZ	J	AC	Plug,13Pin
CNP704	92LCONE5P53254	J	AB	Plug,5Pin
⚠ CNP801	QCNCM049BAWZZ	J	AC	Plug,2Pin
CNP802	QCNCM051EAWZZ	J	AD	Plug,5Pin
CNP803	92LCONE2P53253	J	AB	Plug,2Pin
CNP804	92LCONE5P5267X	J	AB	Plug,5Pin
CNP901	QCNCM010UAWZZ	J	AD	Plug,19Pin
CNS1A/B	QCNWN1537AWZZ	J	AG	Connector Ass'y,7/7Pin
CNS2A/B	QCNWN1538AWZZ	J	AG	Connector Ass'y,8/8Pin
CNS3A/B	QCNWN1539AWZZ	J	AE	Connector Ass'y,6/6Pin
CNS803	QCNWN1542AWZZ	J	AC	Connector Ass'y,2Pin
CNS901	QCNCW010UAWZZ	J	AD	Plug,19Pin
⚠ F800,801	92LFUSET402E	J	AD	Fuse,T4A L 250V
⚠ F802,803	92LFUSET502E	J	AC	Fuse,T5A L 250V
⚠ F805	92LFUSET202E	J	AC	Fuse,T2A L 250V
FC701	QCNWN1545AWZZ	J	AG	Flat Cable,29Pin
FC702	QCNWN1544AWZZ	J	AE	Flat Cable,13Pin
FE301	RTUNS0012AWZZ	J	AV	FM Front End
FL701	VVKBJ744GNK-1	J	BD	FL Display
FW701	QCNWN1649AWZZ	J	AC	Flat Wire,3Pin
FW801	QCNWN1543AWZZ	J	AD	Flat Wire,5Pin
JK601	QSOCJ0213AWZZ	J	AE	Jack,Video In
JK670	QJAKM0010AWZZ	J	AF	Jack,Headphones
JOG701	QSW-Z0010AWZZ	J	AF	Switch,Push Type [Jog]
LG901,902	QLUGP0001AWZZ	J	AC	Lug
LUG1	QLUGP0002AWZZ	J	AB	Lug
⚠ LUG903,904	92LLUG1746A	J	AA	Lug Terminal
M1	92LMTR2790CASY	J	BB	Motor with Chassis [Spindle]
M2	92LMTR1854BASY	J	AP	Motor with Gear [Sled]
M3	92LTWMEN7E6Y	J	AR	Motor with Worm Pulley [T/T Up/Down Loading]
M701	RMOTV0027AWZZ	J	AM	Motor,Volume
M901	RMOTV0027AWZZ	J	AM	Motor,Air Cooling Fan
RL801	RRLYD0001SJZZ	J	AQ	Relay
RL901,902	RRLYD0004AWZZ	J	AP	Relay
RX701	VHLN63H380A-1	J	AK	Remote Sensor,N63H380A
SO301	QTANC0101AWZZ	J	AF	Terminal,Antenna
SO901	QTANA0806AWZZ	J	AG	Terminal,Speaker
SW1	SWMPU10780MLB	J	AH	Switch,Push Type [Open/Close]
SW2	SWMPU11470MLB	J	AE	Switch,Push Type [Clamp]
SW3	SWMPU11470MLB	J	AE	Switch,Push Type [Disc Number]
SW4	QSW-F9001AW01	J	AD	Switch,Leaf Type [Pickup In]
SW701	92LSWICH1401AT	J	AC	Switch,Key Type [ON/STAND-BY]
SW702	92LSWICH1401AT	J	AC	Switch,Key Type [CLOCK]
SW703	92LSWICH1401AT	J	AC	Switch,Key Type [TIMER/SLEEP]
SW704	92LSWICH1401AT	J	AC	Switch,Key Type [PTY.TI SEARCH]
SW705	92LSWICH1401AT	J	AC	Switch,Key Type [EON]
SW706	92LSWICH1401AT	J	AC	Switch,Key Type [ASPM]
SW707	92LSWICH1401AT	J	AC	Switch,Key Type [DISPLAY MODE]
SW708	92LSWICH1401AT	J	AC	Switch,Key Type [STATION]
SW709	92LSWICH1401AT	J	AC	Switch,Key Type [DISC 1]
SW710	92LSWICH1401AT	J	AC	Switch,Key Type [DISC 2]
SW711	92LSWICH1401AT	J	AC	Switch,Key Type [DISC 3]
SW712	92LSWICH1401AT	J	AC	Switch,Key Type [DISC SKIP]
SW713	92LSWICH1401AT	J	AC	Switch,Key Type [OPEN/CLOSE]
SW714	92LSWICH1401AT	J	AC	Switch,Key Type [DIMMER]
SW715	92LSWICH1401AT	J	AC	Switch,Key Type [X-BASS]
SW716	92LSWICH1401AT	J	AC	Switch,Key Type [EQUALIZER]
SW722	92LSWICH1401AT	J	AC	Switch,Key Type [CD]
SW723	92LSWICH1401AT	J	AC	Switch,Key Type [TAPE]
SW724	92LSWICH1401AT	J	AC	Switch,Key Type [TUNING/TIME DOWN]
SW725	92LSWICH1401AT	J	AC	Switch,Key Type [MEMORY/SET]
SW726	92LSWICH1401AT	J	AC	Switch,Key Type [PRESET DOWN]
SW727	92LSWICH1401AT	J	AC	Switch,Key Type [PRESET UP]
SW728	92LSWICH1401AT	J	AC	Switch,Key Type [PLAY/REPEAT]
SW729	92LSWICH1401AT	J	AC	Switch,Key Type [STOP]
SW731	92LSWICH1401AT	J	AC	Switch,Key Type [REC/PAUSE]
SW732	92LSWICH1401AT	J	AC	Switch,Key Type [TUNING/TIME UP]
SW733	92LSWICH1401AT	J	AC	Switch,Key Type [VIDEO/AUX]
SW734	92LSWICH1401AT	J	AC	Switch,Key Type [TUNER (BAND)]
WT601	QCNCW012EAWZZ	J	AC	Plug,5Pin

CD MECHANISM PARTS

301	NGERH0011AWZZ	J	AC	Gear,Middle
302	NGERH0012AWZZ	J	AC	Gear,Drive
303	MLEVP0080AWZZ	J	AC	Rail,Guide
304	NSFTM0020AWFW	J	AD	Shaft,Guide
305	92LM-CUSN1524A	J	AC	Cushion
⚠ 306	92LHPC1LXASY	J	BD	Pickup Unit Ass'y
306- 1	————		—	Pickup Unit (Not Replacement Item)
306- 2	NGERR0043AFZZ	J	AC	Gear,Rack
306- 3	MSPRC0961AFZZ	J	AA	Spring,Rack
701	XBSSD26P06000	J	AA	Screw,ø2.6×6mm
702	XHBSD20P05000	J	AA	Screw,ø2×5mm
703	XBBSD20P03000	J	AA	Screw,ø2×3mm
704	LX-WZ1070AFZZ	J	AA	Washer,ø1.5×ø3.8×0.25mm
M1	92LMTR2790CASY	J	BB	Motor with Chassis [Spindle]
M2	92LMTR1854BASY	J	AP	Motor with Gear [Sled]
SW4	QSW-F9001AW01	J	AD	Switch,Leaf Type [Pickup In]

CABINET PARTS

201	92LCAB3344AASY	J		Front Cabinet Ass'y
201- 1	————		—	Front Panel (Not Replacement Item)
201- 2	GDORF0076AWSA	J	AE	Holder,Cassette,Tape 1
201- 3	GDORF0077AWSA	J	AE	Holder,Cassette,Tape 2
201- 4	GCOVA1282AWSA	J	AL	Cover,Cassette,Tape 1
201- 5	GCOVA1283AWSA	J	AL	Cover,Cassette,Tape 2
201- 6	HDECQ0559AWSA	J	AE	Panel,Cassette,Tape 1
201- 7	HDECQ0560AWSA	J	AE	Panel,Cassette,Tape 2
201- 8	HDECQ0574AWSA	J	AK	Panel,Amp.
201- 9	HDECQ0569AWSA	J	AF	UV Filter
201-10	JKNBZ0702AWSA	J	AH	Knob,Disc Control
201-11	JKNBZ0703AWSA	J	AG	Knob,Main Control
201-12	JKNBZ0700AWSA	J	AG	Knob,On/Stand-by/Clock/Timer/Sleep/Dimmer
201-13	JKNBZ0705AWSA	J	AG	Knob,CD/Tape
201-14	JKNBZ0722AWSA	J	AF	Knob,Tuner/Video/Aux
201-15	JKNBZ0708AWSA	J	AM	Knob,X-BASS/Equalizer
201-16	GCOVA1287AWSA	J	AG	Cover,Remote Control Sensor
201-17	HDECQ0558AWSA	J	AH	Panel,Main Control
201-18	HDECQ0562AWSA	J	AC	Decoration Ring

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
201-19	GCOVA1289AWSA	J	AG	Cover,Mode Indicator
201-20	GCOVA1290AWSA	J	AF	Cover,Timer Rec. Indicator
201-21	MLIFP0008AWZZ	J	AD	Damper
201-22	MSPRD0092AWFJ	J	AB	Spring,Cassette,Tape 1
201-23	MSPRD0093AWFJ	J	AB	Spring,Cassette,Tape 2
201-24	JKNBZ0701AWSA	J	AG	Knob,RDS
201-25	GCOVA1286AWSA	J	AG	Cover,X-BASS/Equalizer Knob
202	92LCAB3308BASY	J		Side Panel Ass'y,Left
202- 1	————		—	Side Panel,Left (Not Replacement Item)
202- 2	PCUSG0022AWZZ	J	AB	Cushion,Leg
203	92LCAB3308CASY	J		Side Panel Ass'y,Right
203- 1	————		—	Side Panel,Right (Not Replacement Item)
203- 2	PCUSG0022AWZZ	J	AB	Cushion,Leg
204	92LCOV3308AASY	J	AM	CD Tray Cover Ass'y
204- 1	————		—	Cover,CD Tray (Not Replacement Item)
204- 2	92LBADGE1671A	J	AC	Badge,SHARP
205	GCAB-1184AWSA	J	AP	Top Cabinet
206	GITAR0577AWSA	J		Rear Panel [For U.K.]
206	GITAR0579AWSA	J	AM	Rear Panel [Except for U.K.]
207	JKNBZ0707AWSA	J	AG	Knob,Volume
208	LANGK0110AWFW1	J	AD	Bracket,Cassette Lock,Tape 1
209	LANGK0111AWFW1	J	AD	Bracket,Cassette Lock,Tape 2
210	LANGK0188AWFW	J	AF	Bracket,Fan Support
211	LANGT0042AWFW	J	AC	Bracket,PWB Support
212	LBSHC0002AWZZ	J	AD	Bushing,AC Power Supply Cord
213	LCHSM0096AWFW	J	AR	Main Chassis
214	LHLDZ1254AWSA	J		Holder,FL Display
215	LHLDZ1230AWZZ	J	AC	Holder,LED
216	LANGK0195AWFW	J	AC	Bracket,Headphones Support
217	LANGK0206AWFW	J		Bracket,PWB Support
218	QCNWN0769AWZZ	J	AD	Lug Wire
219	MLOKC0003AWZZ	J	AD	Lock Lever,Cassette,Tape 1
220	MLOKC0004AWZZ	J	AD	Lock Lever,Cassette,Tape 2
221	MSPRD0109AWFJ	J	AB	Spring,Cassette Lock,Tape 1
222	MSPRD0110AWFJ	J	AB	Spring,Cassette Lock,Tape 2
223	NFANP0001AWZZ	J	AD	Rotary Fan
224	92LPT0331105	J	AM	Turntable
225	PCUSG0022AWZZ	J	AB	Cushion,Leg
226	PRDAR0149AWFW	J	AP	Heat Sink,Main
227	PRDAR0150AWFW	J	AS	Heat Sink,Sub,A
228	PRDAR0151AWFW	J	AG	Heat Sink,Sub,B
⚠229	QACCB0009AW00	J	AL	AC Power Supply Cord [For U.K.]
⚠229	QACCE0010AW00	J	AK	AC Power Supply Cord [Except for U.K.]
⚠231	QFSHD0001AWZZ	J	AB	Holder,Fuse
232	92LBE241414	J	AD	Belt
233	92LCSPR1431C	J	AA	Spring,Ring
234	92LEVA0330702	J	AD	Velvet Carpet,Cushion
235	92LMAG0104302	J	AE	Magnet
237	92LNBAND1318A	J	AA	Nylon Band,80mm
238	92LNM0305401	J	AB	Velvet Carpet
239	92LPT0303002	J	AB	Roller
240	92LPT0304303	J	AB	Lever,Stop
241	92LPT0304304	J	AB	Stopper
242	92LPT0304305	J	AE	Lever,Lock
243	92LPT0304306	J	AG	Stabilizer
244	92LPT0304307	J	AC	Support,Cam
245	92LPT0304308	J	AB	Lock Gear Pin
246	92LPT0304309	J	AB	Cap,Pulley Stopper
247	92LPT0305413	J	AG	Cam Gear Lower
248	92LPT0309506	J	AD	Gear,Turntable Drive
249	92LPT0309507	J	AD	Gear,Open/Close Drive
250	92LPT0309508	J	AD	Gear,Planet
251	92LPT0309509	J	AD	Gear,Drive
252	92LPT0309510	J	AE	Gear,Pulley
253	92LPT0309511	J	AD	Gear,Middle
254	92LPT0311101	J	AB	Lever,Clamp
255	92LPT0311102	J	AC	Lever,Disc
256	92LPT0312005	J	AL	Gear,Cam
257	92LPT0320201	J	AE	Support,Stabilizer
258	92LPT0330301	J	AU	Chassie
259	92LPT0330803	J	AK	CD,Chassis
260	92LPT0331003	J	AT	Holder,Slide
262	92LSP0304303	J	AB	Spring,Stopper
263	92LSP0304305	J	AB	Spring,Lock Lever
264	92LSP0304306	J	AB	Spring,Lock Gear
265	KMECB0011AWZZ	J	BH	Tape Mechanism Ass'y
266	92LMT0304302	J	AB	Metal Plate
267	LANGK0189AWFW	J	AC	Support Bracket,Sub Heat Sink B
268	92LCAUT1706A1	J	AC	Label,Class 3A
269	92LCAUT1706B	J	AA	Label,Laser
271	PGIDM0029AWZZ	J	AC	Guide,Volume
272	LCHSZ0016AWZZ	J		Volume Chassis
273	NPLYM0017AWZZ	J	AB	Volume Gear
274	NGERW0012AWZZ	J	AD	Warm Gear
275	NBLTK0036AWZZ	J	AC	Belt,Drive
276	NGERH0093AWZZ	J	AE	Wheel,Volume
277	LHLDZ1257AWZZ	J		Holder,Volume
278	LANGK0208AWFW	J		Bracket,PWB Support
279	PSLDM3015AWFW	J	AD	Shield,Tape
601	XBBSD20P04000	J	AA	Screw,ø2×4mm
602	XJBSF30P10000	J	AA	Screw,ø3×10mm
603	XEBSD30P12000	J	AA	Screw,ø3×12mm
605	XESSD30P10000	J	AA	Screw,ø3×10mm
606	XHBSD26P04000	J	AA	Screw,ø2.6×4mm
607	XHBSD30P06000	J	AA	Screw,ø3×6mm
608	XJBSD30P10000	J	AA	Screw,ø3×10mm
609	XJBSD30P14000	J	AA	Screw,ø3×14mm
610	LX-HZ0009AWFD	J	AC	Screw,Special
611	XJSSD30P10000	J	AA	Screw,ø3×10mm
612	LX-BZ2222AXZZ	J	AB	Screw,Special
613	LX-HZ0082AFZZ	J	AA	Screw,ø4×8mm
614	LX-JZ0010AFFD	J	AA	Screw,ø3×10mm
616	92LSC0308MBZI	J	AB	Screw,ø3×8mm
617	92LSC0308RBZI	J		Screw,ø3×8mm

ACCESSORIES/PACKING PARTS

1	QANTL0008AWZZ	J	AH	AM Loop Antenna
2	TGAN-3170UMZZ	J	AE	Resistration Card [For U.K. Only]
3	TINSE0315AWZZ	J	AE	Operation Manual [For U.K.]
3	TINSZ0573AWZZ	J	AP	Operation Manual [Except for U.K.]
4	TINSZ0572AWZZ	J	AB	Quick Guide [For U.K. Only]
5	TLABE0410AWZZ	J		Label,Bar Code [Except for U.K.]
5	TLABE0422AWZZ	J		Label,Bar Code [For U.K.]
6	TLABZ0604AWZZ	J	AB	Energy Star Label (Set)
7	TLABZ0771AWZZ	J		Label,Feature,Tape 1 [Except for U.K.]
7	TLABZ0785AWZZ	J		Label,Feature,Tape 1 [For U.K.]
8	TLABZ0772AWZZ	J		Label,Feature,Tape 2
9	TLABZ0605AWZZ	J	AB	Label,Saving Energy
10	92LFANT1535A	J	AF	FM Antenna
11	RRMCG0219AWSA	J	AR	Remote Control
	GFTAB1022AWSB	J	AK	Battery Lid,Remote Control
12	SPAKA0255AWZZ	J		Packing Add.,Left/Right
13	SPAKC0884AWZZ	J		Packing Case [Except for U.K.]
13	SPAKC0997AWZZ	J	AT	Packing Case [For U.K.]
14	SPAKP0013AWZZ	J	AC	Polyethylene Bag,Unit
15	92LBAG1460C1	J	AB	Polyethylene Bag,Accessories
16	92LBAG1770A	J	AB	Polyethylene Bag,AC Power Supply Cord

P.W.B. ASSEMBLY (Not Replacement Item)

PWB-A1~4	92LPWB3344MANS	J	—	Main/Display/Switch/Head-phones (Combined Ass'y)
PWB-B	92LPWB3304PWRS	J	—	Power Supply
PWB-C	92LPWB3303CDUS	J	—	CD Servo
PWB-D	QPWBF0027AWZZ	J	AD	CD Motor (PWB Only)
PWB-E	————		—	Tape Mechanism
PWB-F	92LPC99C017	J	AE	CD Loading Motor (PWB Only)
PWB-G	92LPWB3284RDSS	J	—	RDS
PWB-H1,2	92LPWB3352VOLS	J	—	Volume Motor/Jog (Combined Ass'y)

OTHER SERVICE PART

	UDSKA0004AFZZ	J	AZ	CD Optical Pickup Lens Cleaner Disc

CD-BA2010H

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION

CP-BA2010H

SPEAKER BOX PARTS

901	92L200L0210030	J	BB	Front Panel Ass'y,Left
902	92L200R0210030	J	BB	Front Panel Ass'y,Right
903	92L20100210010	J	AM	Net Frame Ass'y
904	92L100L2201010	J	BH	Speaker Box Ass'y,Left (with Speaker Cord)
905	92L100R2201010	J	BH	Speaker Box Ass'y,Right (with Speaker Cord)
906	92L600A2010H00	J	AC	Label,Specification
907	92L411B840160P	J	AD	Screw,ø4×16mm
908	92L411B930100P	J	AC	Screw,ø3×10mm
909	92L411F830100P	J		Screw,ø3×10mm
910	92L411B830120P	J	AB	Screw,ø3×12mm
911	92L312BA210010	J		Woofer Cord Ass'y with Capacitor
912	92L3121A210010	J		Subwoofer Cord
SP1,2	92L303R0300810	J	AH	Super Tweeter
SP3,4	VSP0051TBN36A	J	AQ	Tweeter
SP5,6	VSPA010WB166A	J	AX	Woofer
SP7,8	VSP0016WBF06A	J	BA	Subwoofer

ACCESSORIES/PACKING PARTS

1	92L70032002210	J	AC	Polyethylene Bag,Speaker
2	92L7200A210000	J		Packing Add.,Top/Bottom

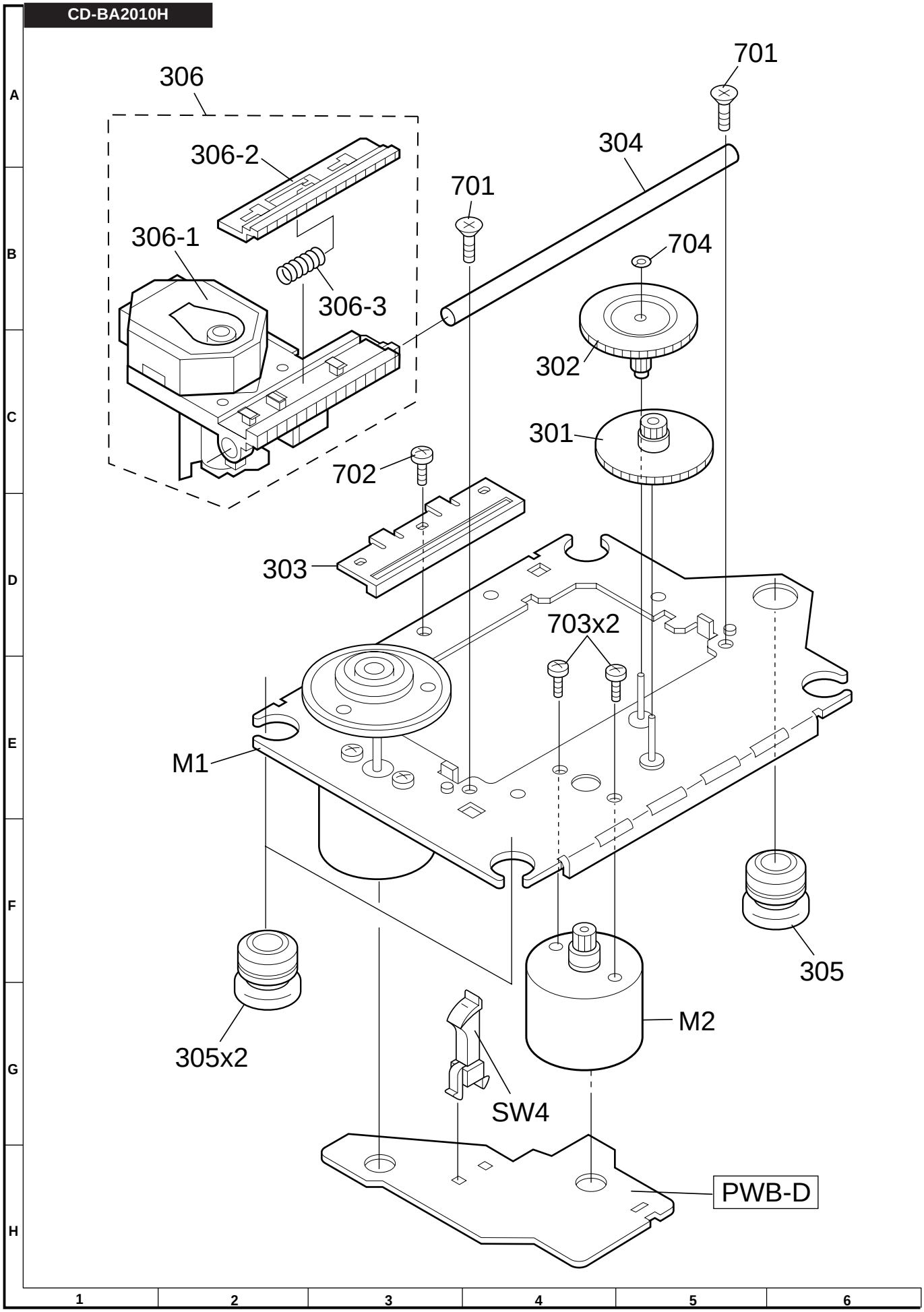
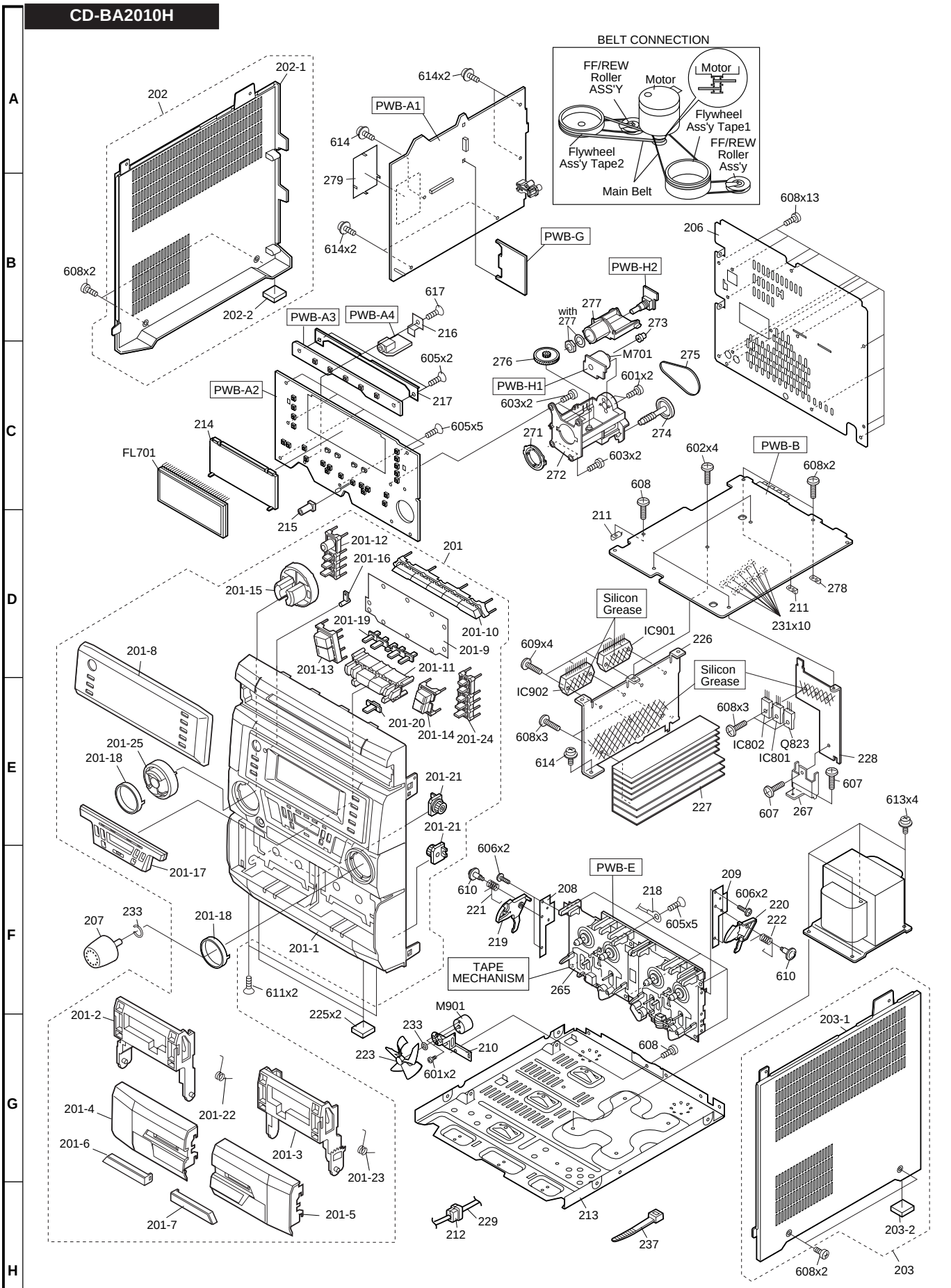


Figure 8 CD MECHANISM EXPLODED VIEW



Note: Only tape mechanism assembly and consumable parts are supplied for replacement purposes.

Figure 9 CABINET EXPLODED VIEW (1/2)

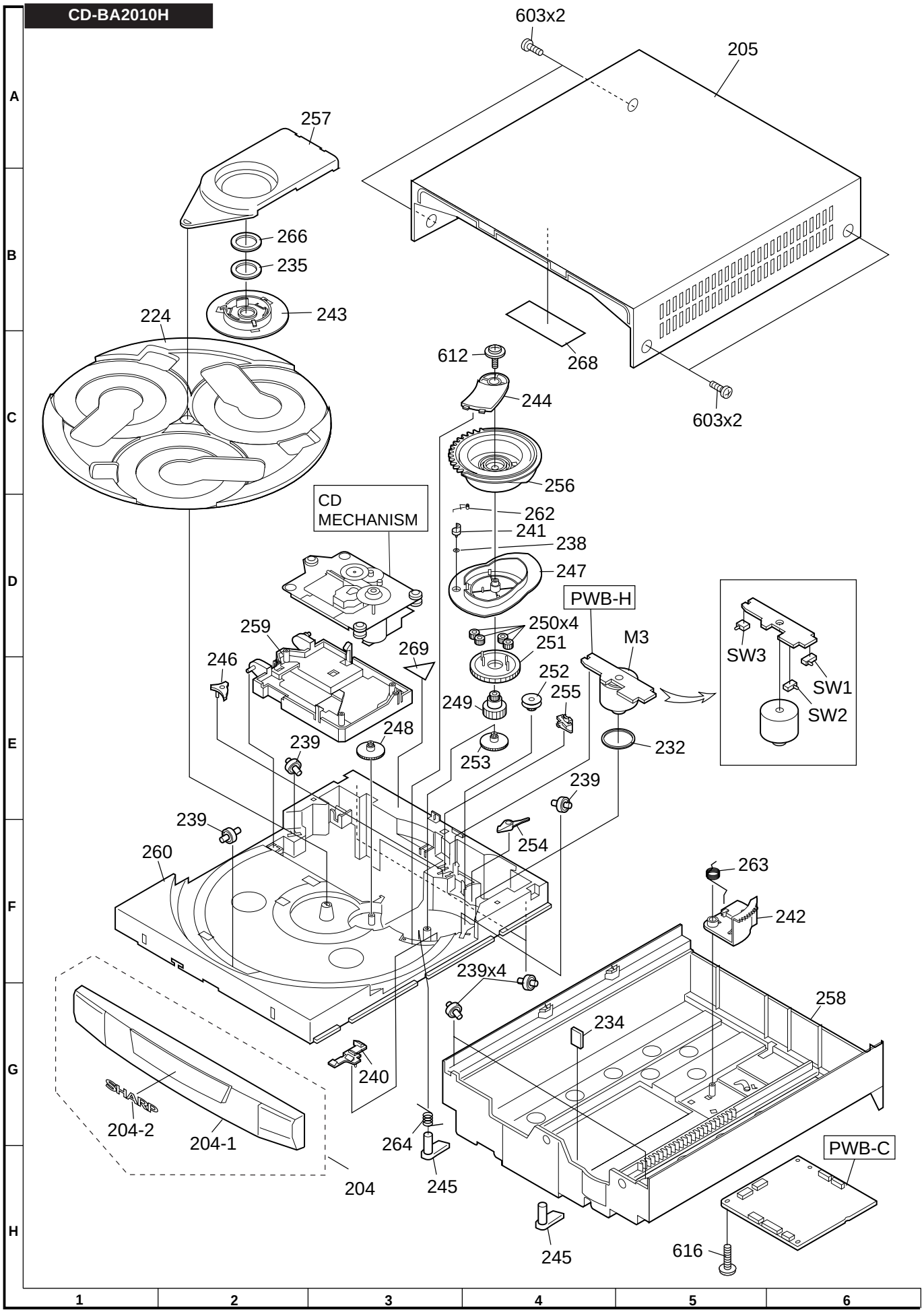


Figure 10 CABINET EXPLODED VIEW (2/2)

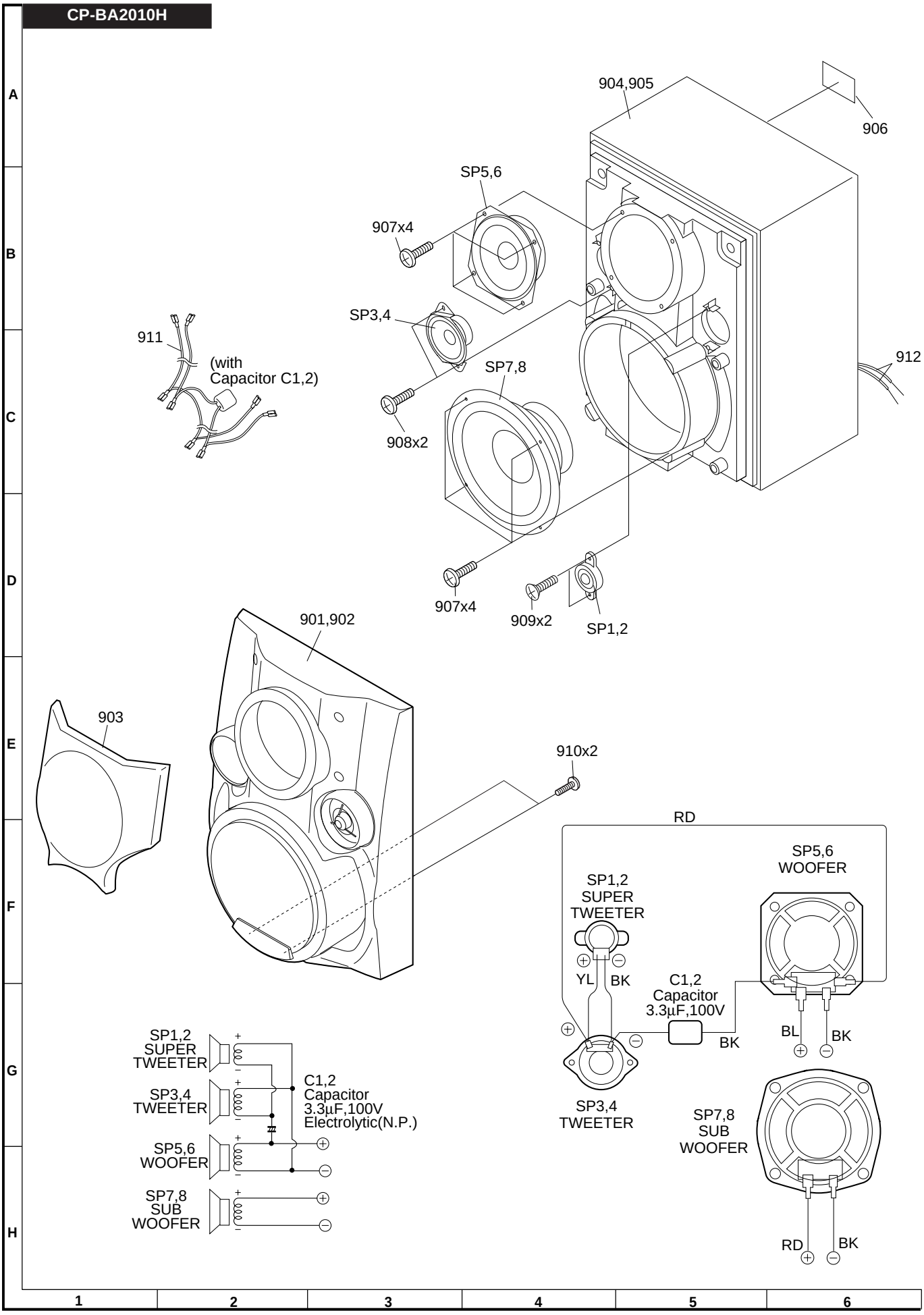


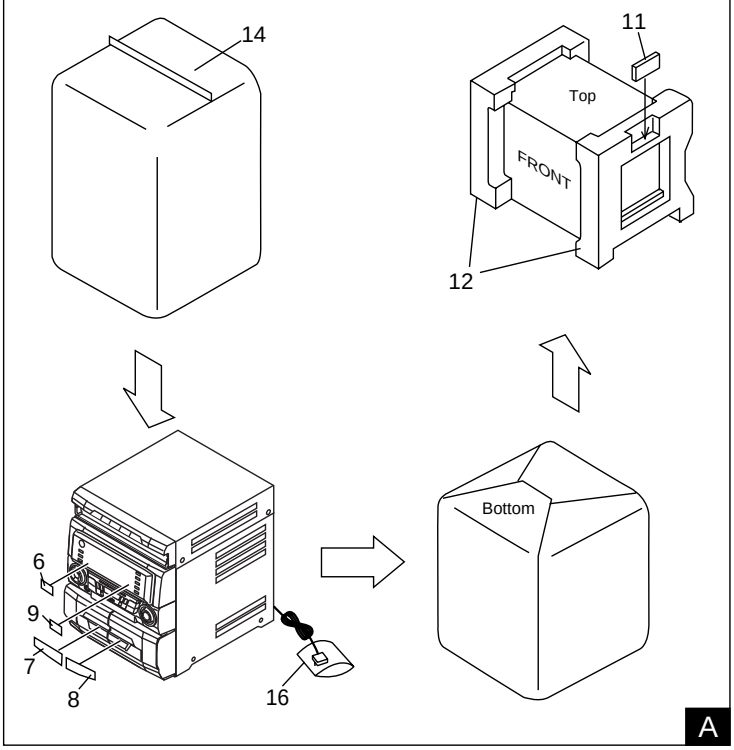
Figure 11 SPEAKER EXPLODED VIEW

PACKING METHOD (FOR U.K. ONLY)

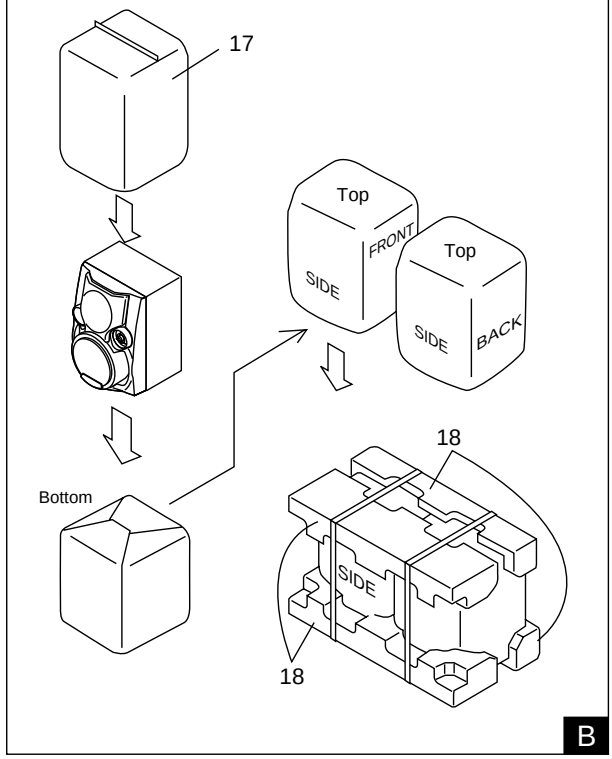
Setting position of switches and knobs	
Tape Mechanism	STOP

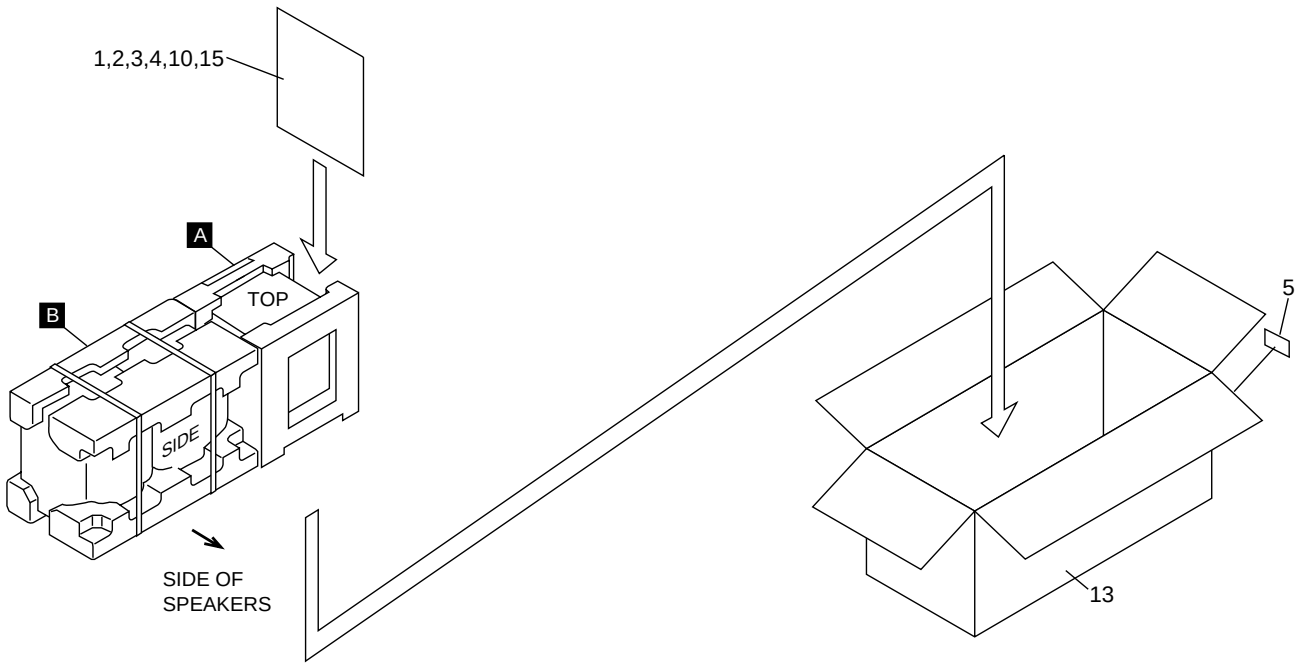
1. AM Loop Antenna	QANTL0008AWZZ
2. Resistration Card	TGAN-3170UMZZ
3. Operation Manual	TiNSE0315AWZZ
4. Quick Guide	TiNSZ0572AWZZ
5. Label, Bar Code	TLABE0422AWZZ
6. Energy Star Label	TLABZ0604AWZZ
7. Feature Label, Tape1	TLABZ0785AWZZ
8. Feature Label, Tape2	TLABZ0772AWZZ
9. Label, Saving Energy	TLABZ0605AWZZ
10. FM Antenna	92LFANT1535A
11. Remote Control	RRMCG0219AWSA
12. Packing Add., Left/Right	SPAKA0255AWZZ
13. Packing Case	SPAKC0997AWZZ
14. Polyethylene Bag, Unit	SPAKP0013AWZZ
15. Polyethylene Bag, Accessories	92LBAG1460C1
16. Polyethylene Bag, AC Power Supply Cord	92LBAG1770A
17. Polyethylene Bag, Speaker	92L70032002210
18. Packing Add., Top/Bottom	92L7200A210000

UNIT



FRONT SPEAKER | CP-BA2010H





CD-BA2010H

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